

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

A292.9
So3wat
cop. 2



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1967

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE | ADDRESS |
|--------------------|---|
| Alaska | P. O. Box "F", Palmer, Alaska 99645 |
| Arizona | 6029 Federal Building, Phoenix, Arizona 85205 |
| Colorado (N. Mex.) | 12417 Federal Building, Denver, Colorado 80202 |
| Idaho | P. O. Box 38, Boise, Idaho 83701 |
| Montana | P. O. Box 855, Bozeman, Montana 59715 |
| Nevada | P. O. Box 4850, Reno Nevada 89505 |
| Oregon | 1218 S. W. Washington St., Portland, Oregon 97205 |
| Utah | 4001 Federal Building, Salt Lake City, Utah 84111 |
| Washington | 840 Bon Marche Bldg., Spokane, Washington 99206 |
| Wyoming | P. O. Box 340, Casper, Wyoming 82602 |

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

Issued by

LEE T. MORGAN
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

R. KEITH HIGGINSON
STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

TABLE of CONTENTS

| | |
|--|----|
| WATER SUPPLY OUTLOOK FOR IDAHO | 1 |
| SNOW WATER DEPTHS ACCUMULATION | 3 |
| COMPARISON OF SNOW COVER | 4 |
| SNOW WATER DEPTHS MAP | 5 |
| RESERVOIR STORAGE | 6 |
| RESERVOIR STORAGE MAP | 7 |
| STREAMFLOW FORECASTS CHART | 8 |
| PROSPECTIVE STREAMFLOW MAP | 9 |
| STREAMFLOW FORECASTS | 10 |
| VALLEY PRECIPITATION | 13 |

APPENDIX

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS -

| | |
|---|-----|
| Snow Course Location Map and Index | |
| Snow Survey Data for Pend Oreille-Priest, Spokane, Palouse, Clearwater, Salmon and Lemhi River Watersheds. | i |
| Soil Moisture Data for Spokane, Clearwater, Salmon and Lemhi River Watersheds | iii |

MIDDLE SNAKE RIVER BASIN - NORTHSIDE -

| | |
|--|----|
| Snow Course Location Map and Index | |
| Snow Survey Data for Little Lost, Big Lost, Little Wood, Big Wood, Boise, Payette and Weiser River Watersheds | iv |
| Soil Moisture Data for Little Wood, Big Wood and Boise River Watersheds | vi |

MIDDLE SNAKE RIVER BASIN - SOUTHSIDE -

| | |
|--|------|
| Snow Course Location Map and Index | |
| Snow Survey Data for Raft River, Goose Creek, Salmon Falls Creek, Bruneau and Owyhee River Watersheds | vii |
| Soil Moisture Data for Raft River, Goose Creek, Salmon Falls Creek, Bruneau and Owyhee River Watersheds | viii |

UPPER SNAKE RIVER BASIN -

| | |
|---|----|
| Snow Course Location Map and Index | |
| Snow Survey Data for Camas-Beaver Creeks, Henrys Fork River, Teton River, Willow Creek, Sand Creek, Blackfoot River, and Portneuf River Watersheds. | ix |
| Soil Moisture Data for Henrys Fork River, Teton River, and Portneuf River Watersheds. | x |

GREAT BASIN -

| | |
|---|----|
| Snow Course Location Map and Index | |
| Snow Survey Data for Bear River, Montpelier Creek and Mink Creek Watersheds. | xi |
| Soil Moisture Data for Bear River and Montpelier Creek Watersheds | xi |

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MARCH 1, 1967

The water supply outlook for Idaho dropped slightly during the month of February as a result of light snowfall and unusually warm temperatures. Snow cover at the foothill and valley elevations melted off and partially primed the soil. Water supply forecasts now vary from 67% of normal for Inflow to Oakley Reservoir to 125% on the Little Wood River above High Five Creek. The major rivers throughout the state such as the Spokane, Snake, Boise, Payette, Salmon and Clearwater are all very close to average.

Snowfall during February was very disappointing and far below normal on all drainages in the state. The high elevation snow courses on many rivers have a snowpack slightly above normal. At the middle and lower elevations in the mountainous areas, it falls well below normal and particularly those rivers south of the Snake River. Water supply shortages can be expected on Salmon Falls Creek and Oakley Reservoir areas as well as all of the adjacent small streams in the southern tier of counties.

On an average year, a little more than three-fourths of the snowpack is usually down by the first of March. The first week of March has been far below normal in snowfall and warm temperatures have settled the snowpack. The density of snow as of March 1 is much higher than on a normal year indicating that the snow-melt season is not far off if warm weather continues.

At valley elevations, warm clear weather is reducing soil moisture and may require early irrigation and thus adversely affect the water supply outlook on most rivers of the state.

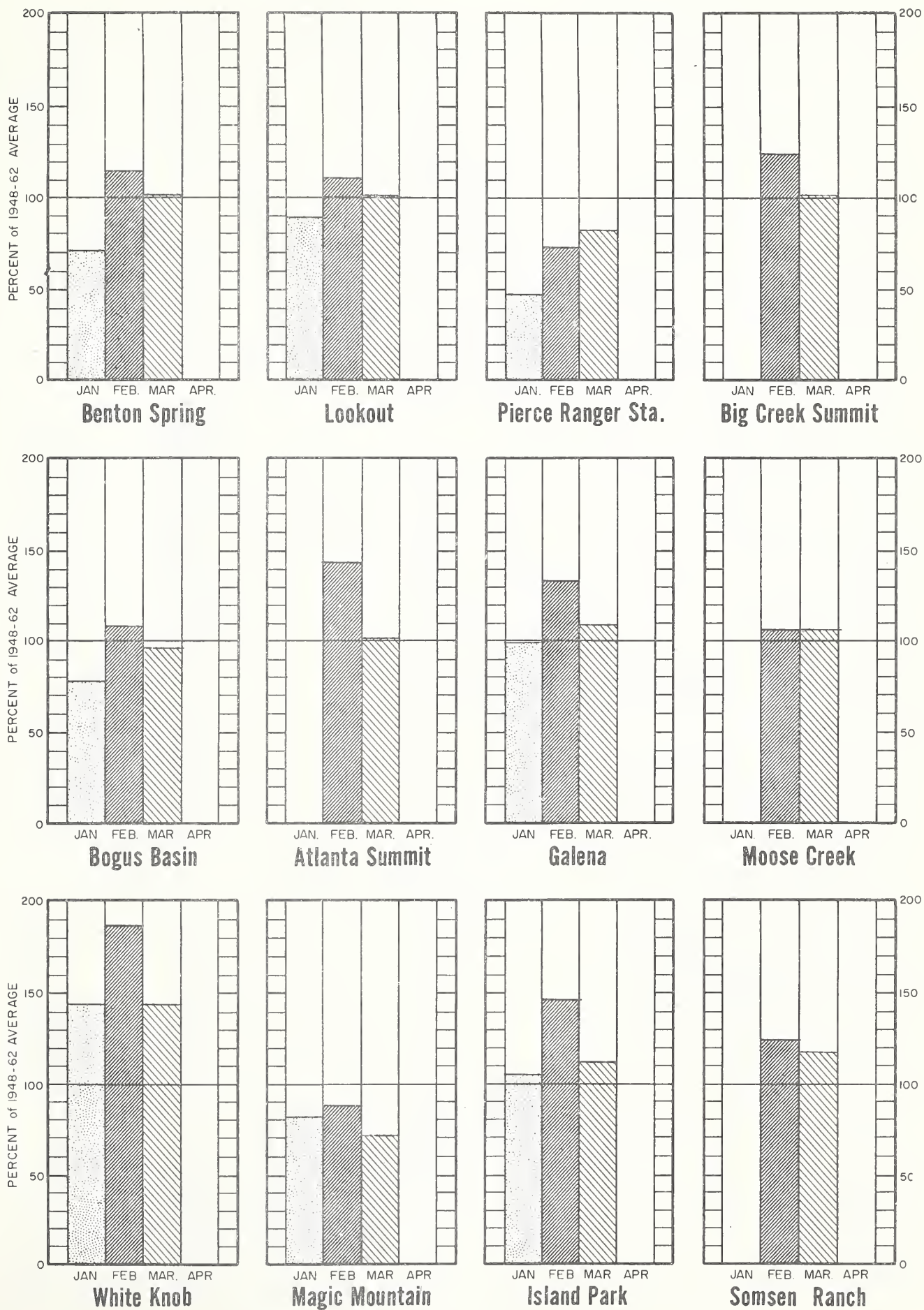
Soil moisture beneath the snow pack at high elevations is still below normal and will absorb a considerable amount of snow-water once the major melt begins. Soil temperatures in general throughout the state are still considerably higher than normal. An early spring has started with trees and grasses already growing at a pace normally reached after April 1.

Reservoir storage still remains below normal throughout the state, but the warm February resulted in an increase in relation to normal storage for the month.

SNOW WATER DEPTHS ACCUMULATION

For Selected Snow Courses
As Compared To 1948-62 15Yr. Average

MARCH 1, 1967



COMPARISON of SNOW COVER

| RIVER BASIN WATERSHED | NO. OF COURSES AVERAGED | THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF : | |
|---|----------------------------|--|-----------------|
| | | LAST YEAR | 1948-62 AVERAGE |
| <u>UPPER COLUMBIA RIVER BASIN</u> | | | |
| Kootenai River | 14 | 125 | 127 |
| Pend Oreille River | 46 | 144 | 117 |
| Clark Fork River | 30 | 143 | 108 |
| Flathead River | 16 | 145 | 132 |
| Priest River | 2-4 | 124 | 88 |
| Spokane River | 8-14 | 120 | 95 |
| <u>LOWER SNAKE RIVER BASIN</u> | | | |
| Palouse River | 4-5 | 58 | 63 |
| Clearwater River | 10-23 | 133 | 96 |
| Salmon River | 13-21 | 136 | 100 |
| Lemhi River | 7 | 157 | -- |
| <u>MIDDLE SNAKE RIVER BASIN - Northside</u> | | | |
| Little Lost River | 5 | 208 | 132 |
| Big Lost River | 5-10 | 178 | 139 |
| Fish Creek | 2 | 182 | 133 |
| Little Wood River | 4-5 | 159 | 132 |
| Big Wood River | 10-12 | 151 | 105 |
| Canyon Creek | 6 | 175 | -- |
| Boise River | 13-20 | 137 | 97 |
| Payette River | 12-19 | 129 | 97 |
| Weiser River | 4 | 121 | -- |
| <u>MIDDLE SNAKE RIVER BASIN - Southside</u> | | | |
| Raft River | 2-6 | 88 | 79 |
| Goose Creek | 2 | 106 | 68 |
| Salmon Falls Creek | 9-11 | 119 | 89 |
| Bruneau River | 4 | 132 | 105 |
| Owyhee River - Idaho | 8-14 | 144 | 109 |
| <u>UPPER SNAKE RIVER BASIN</u> | | | |
| Upper Snake - Wyoming | 21 | 129 | 105 |
| Camas-Beaver Creeks | 2 | 134 | 115 |
| Medicine Lodge Creek | 2 | 133 | -- |
| Henrys Fork River | 4-10 | 136 | 118 |
| Teton River | 2-4 | 154 | 104 |
| Blackfoot River | 3-4 | 111 | 107 |
| Portneuf River | 3-8 | 131 | 108 |
| <u>GREAT BASIN</u> | | | |
| Bear River | 17 | 126 | 103 |
| Montpelier Creek | 4 | 117 | -- |
| Mink Creek | 3-5 | 142 | 105 |
| Cub River | 2 | 121 | 94 |
| Malad River | 2 | 138 | 96 |

SNOW WATER DEPTHS

As percent of 1948-62 15 year average

MARCH 1, 1967

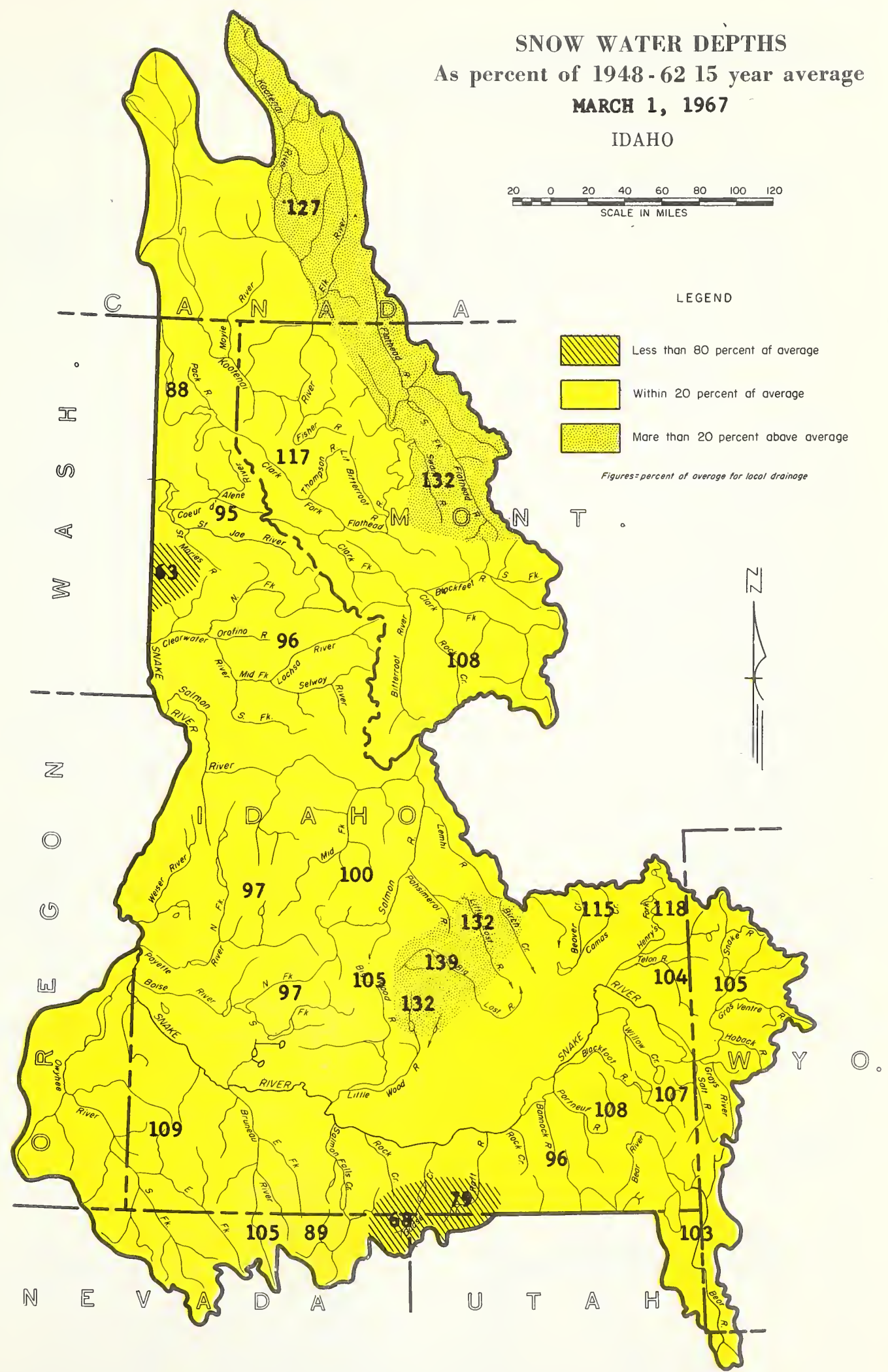
IDAHO



LEGEND

- Less than 80 percent of average
- Within 20 percent of average
- More than 20 percent above average

Figures=percent of average for local drainage



RESERVOIR STORAGE (1,000 Ac. Ft.)

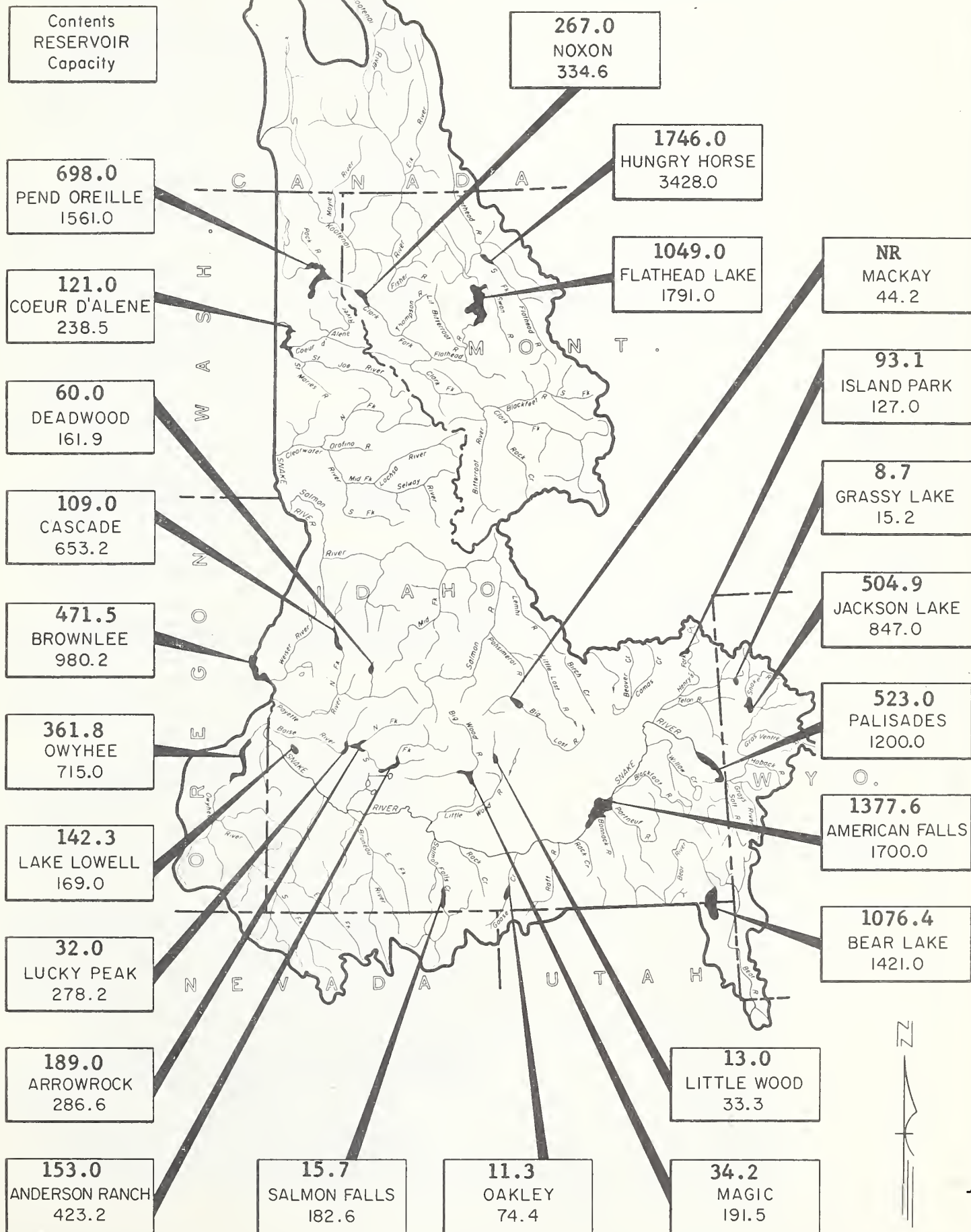
| RESERVOIR | USABLE CAPACITY | MEASURED (First of Month) | | |
|------------------------------|-----------------|---------------------------|-----------|-------------------|
| | | THIS YEAR | LAST YEAR | 1948 - 62 AVERAGE |
| UPPER COLUMBIA BASIN | | | | |
| Clark Fork - Pend Oreille | | | | |
| Hungry Horse | 3428.0 | 1746.0 | 2272.0 | 2436.3* |
| Flathead | 1791.0 | 1049.0 | 918.3 | 844.6 |
| Pend Oreille | 1561.0 | 698.0 | 958.8 | 748.8 |
| Noxon | 334.6 | 267.0 | 308.3 | -- |
| Spokane | | | | |
| Coeur d'Alene | 238.5 | 121.0 | 48.3 | 167.3 |
| SNAKE BASIN | | | | |
| Snake | | | | |
| Jackson Lake | 847.0 | 504.9 | 696.5 | 417.3 |
| Palisades | 1200.0 | 523.0 | 1017.6 | 513.4** |
| American Falls | 1700.0 | 1377.6 | 1287.4 | 1438.9 |
| Island Park | 127.0 | 93.1 | 120.7 | 111.3 |
| Grassy Lake | 15.2 | 8.7 | 9.2 | 11.9 |
| Brownlee | 980.2 | 471.5 | 265.4 | -- |
| Goose-Trapper Creeks | | | | |
| Oakley | 74.4 | 11.3 | 23.6 | 16.2 |
| Salmon Falls Creek | | | | |
| Salmon Falls | 182.6 | 15.7 | 48.0 | 22.6 |
| Big Lost | | | | |
| Mackay | 44.2 | N.R. | 40.8 | 30.8 |
| Big Wood | | | | |
| Magic | 191.5 | 34.2 | 158.7 | 102.7 |
| Little Wood | | | | |
| Little Wood | 30.0 | 13.0 | 20.6 | 8.9* |
| Boise | | | | |
| Anderson Ranch | 423.2 | 153.0 | 353.0 | 156.1 |
| Arrowrock | 286.6 | 189.0 | 265.9 | 224.5 |
| Lucky Peak | 278.2 | 32.0 | 231.9 | 156.1* |
| Lake Lowell (Deer Flat) | 169.0 | 142.3 | 131.4 | 114.7 |
| Owyhee | | | | |
| Owyhee | 715.0 | 361.8 | 584.8 | 410.4 |
| Payette | | | | |
| Cascade | 653.2 | 109.0 | 445.6 | 211.3* |
| Deadwood | 161.9 | 60.0 | 106.0 | 70.2 |
| GREAT BASIN | | | | |
| Bear | | | | |
| Bear Lake | 1421.0 | 1076.4 | 1045.4 | 894.3 |
| * Period of Record. | | | | |
| ** Estimated 1948-62 Average | | | | |

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1967

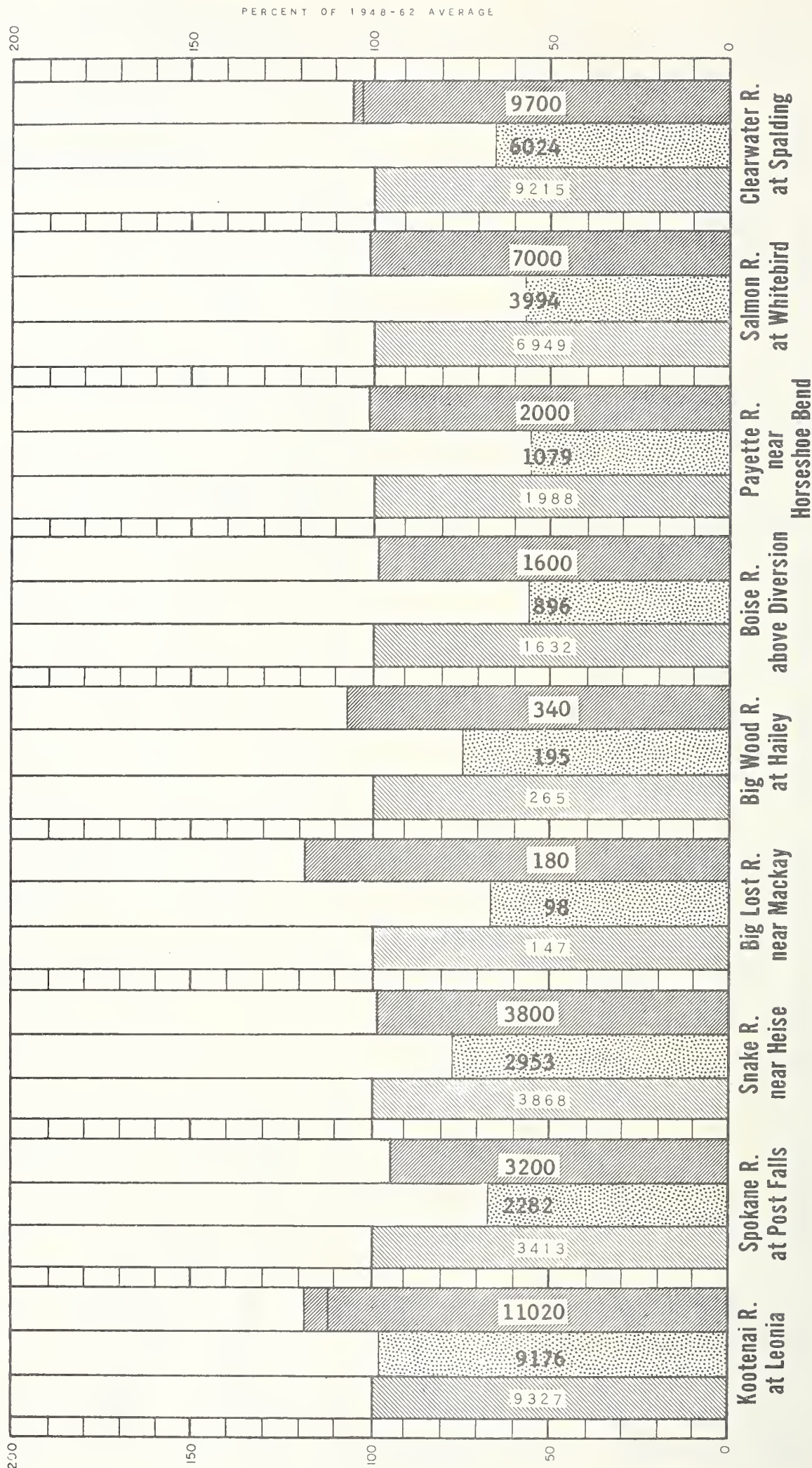
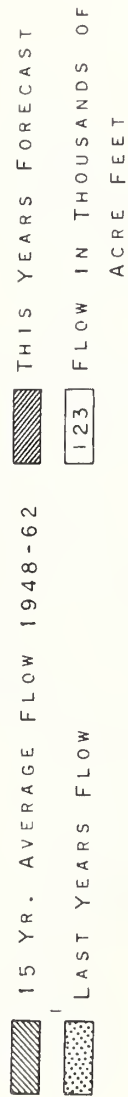
50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS (April through September period)

Based on Snow Surveys made on approximately

MARCH 1, 1967



STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

| STREAM and/or FORECAST POINT | FORECAST THIS YEAR | FORECAST PERIOD | LAST YEAR | 1948-1962 AVERAGE | THIS YEAR AS PERCENT OF AVERAGE |
|------------------------------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|
|------------------------------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|

UPPER COLUMBIA BASINKOOTENAI RIVER

| | | | | | | |
|--------|------|-------|---------|------|------|-----|
| Leonía | (at) | 11020 | Apr-Sep | 9176 | 9327 | 118 |
| | | 9650 | Apr-Jul | 8156 | 8179 | 118 |
| | | 7800 | Apr-Jun | 6560 | 6601 | 118 |

PEND OREILLE RIVERClark Fork River

| | | | | | | |
|-------------------|------|-------|---------|-------|-------|-----|
| Whitehorse Rapids | (at) | 16170 | Apr-Sep | 11474 | 14398 | 112 |
| | | 14800 | Apr-Jul | 10516 | 13187 | 112 |
| | | 12700 | Apr-Jun | 9089 | 11318 | 112 |

Priest River

| | | | | | | |
|-----------------|------|-----|---------|-----|-----|----|
| Priest River 1/ | (nr) | 900 | Apr-Jul | 776 | 954 | 94 |
|-----------------|------|-----|---------|-----|-----|----|

SPOKANE RIVER

| | | | | | | |
|---------------|------|------|---------|------|------|----|
| Post Falls 2/ | (at) | 3200 | Apr-Sep | 2282 | 3413 | 94 |
|---------------|------|------|---------|------|------|----|

Coeur d'Alene River

| | | | | | | |
|---------|------|------|---------|-----|------|----|
| Cataldo | (nr) | 1295 | Apr-Sep | 979 | 1377 | 94 |
| | | 1240 | Apr-Jul | 935 | 1317 | 94 |

St. Joe River

| | | | | | | |
|--------|------|------|---------|------|------|----|
| Calder | (at) | 1365 | Apr-Sep | 1070 | 1453 | 94 |
| | | 1300 | Apr-Jul | 1014 | 1383 | 94 |

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

| | | | | | | |
|---------------------|------|------|---------|------|------|-----|
| Moran 3/ | (at) | 910 | Apr-Sep | -- | 865 | 105 |
| Palisades Inflow 3/ | | 3370 | Apr-Sep | -- | 3314 | 102 |
| Heise 4/ | (nr) | 3800 | Apr-Sep | 2953 | 3868 | 98 |
| Blackfoot 5/ | (nr) | 3890 | Apr-Jul | 2863 | 3976 | 98 |
| Weiser | (at) | 5900 | Apr-Sep | -- | 6949 | 85 |

Henrys Fork

| | | | | | | |
|------------|------|------|---------|-----|------|-----|
| Ashton 6/ | (nr) | 690 | Apr-Sep | 545 | 610 | 113 |
| Rexburg 7/ | (nr) | 1380 | Apr-Sep | 950 | 1258 | 110 |

Teton River

| | | | | | | |
|-------------|------|-----|---------|-----|-----|-----|
| St. Anthony | (nr) | 400 | Apr-Sep | 316 | 402 | 100 |
|-------------|------|-----|---------|-----|-----|-----|

Blackfoot River

| | | | | | | |
|-------------------------------|--|-----|---------|----|-----|----|
| Blackfoot Reservoir Inflow | | 100 | Apr-Sep | -- | 102 | 98 |
|-------------------------------|--|-----|---------|----|-----|----|

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

STREAMFLOW FORECASTS^(c) (1,000 Ac. Ft.)

| STREAM and/or FORECAST POINT | | FORECAST THIS YEAR | FORECAST PERIOD | LAST YEAR | 1948-1962 AVERAGE | THIS YEAR AS PERCENT OF AVERAGE |
|-------------------------------------|------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|
| <u>Portneuf River</u> | | | | | | |
| Topaz | (at) | 90 | Mar-Sep | 75 | 89 | 101 |
| <u>Oakley Reservoir Inflow</u> | | 15 | Mar-Sep | 14.4 | 22.4 | 67 |
| <u>Salmon Falls Creek</u> | | | | | | |
| San Jacinto | (nr) | 55 | Mar-Sep | 36 | 78 | 70 |
| | | 53 | Mar-Jul | 33 | 76 | 70 |
| <u>Bruneau River</u> | | | | | | |
| Hot Springs | (nr) | 160 | Mar-Sep | 84 | 215 | 74 |
| <u>Little Lost River</u> | | | | | | |
| Howe | (nr) | 40 | Mar-Sep | 36 | 37 | 108 |
| <u>Big Lost River</u> | | | | | | |
| Howell Ranch | (at) | 220 | Apr-Sep | 104 | 181 | 122 |
| | | 160 | Apr-Jun | 79 | 131 | 122 |
| Mackay <u>1/</u> | (nr) | 180 | Apr-Sep | 98 | 153 | 118 |
| <u>Big Wood River</u> | | | | | | |
| Hailey <u>2/</u> | (at) | 340 | Apr-Sep | 195 | 317 | 107 |
| Magic Reservoir Inflow <u>3/</u> | | 290 | Mar-Jul | 157 | 277 | 105 |
| <u>Little Wood River</u> | | | | | | |
| High Five Creek | (ab) | 100 | Apr-Sep | 55 | 80 | 125 |
| <u>Boise River</u> | | | | | | |
| Twin Springs | (nr) | 750 | Apr-Sep | 411 | 756 | 99 |
| | | 700 | Apr-Jul | 378 | 704 | 99 |
| Boise <u>4/</u> | (nr) | 1600 | Apr-Sep | 896 | 1632 | 98 |
| <u>South Fork</u> | | | | | | |
| Anderson Dam <u>5/</u> | (at) | 610 | Apr-Sep | 340 | 610 | 98 |
| <u>Owyhee River</u> | | | | | | |
| Gold Cr., Nev. <u>6/</u> | (nr) | 15 | Apr-Jul | 6 | 22 | 68 |
| Owyhee, Nev. <u>6/</u> | (nr) | 50 | Apr-Jul | 21 | 74 | 68 |
| Lake Owyhee | | 289 | Apr-Sep | 105 | 381 | 76 |
| net inflow <u>7/</u> | | 369 | Mar-Jul | 160 | 466 | 79 |
| <u>Jordan Creek</u> | | | | | | |
| Lone Tree Creek | (ab) | 120 | Mar-Jul | -- | 116 | 103 |

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

| STREAM and/or FORECAST POINT | | FORECAST THIS YEAR | FORECAST PERIOD | LAST YEAR | 1948-1962 AVERAGE | THIS YEAR AS PERCENT OF AVERAGE |
|-------------------------------------|------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|
| <u>Payette River</u> | | | | | | |
| Horseshoe Bend <u>1/</u> | (nr) | 2000 | Apr-Sep | 1079 | 1988 | 101 |
| Banks <u>2/</u> | (nr) | 1040 | Apr-Jul | -- | 1036 | 100 |
| <u>North Fork</u> | | | | | | |
| Cascade <u>3/</u> | (at) | 590 | Apr-Sep | -- | 589 | 100 |
| Banks <u>3/</u> | (nr) | 760 | Apr-Sep | -- | 760 | 100 |
| <u>Weiser River</u> | | | | | | |
| Weiser ab. Crane Creek <u>4/</u> | | 580 | Mar-Sep | -- | 554 | 105 |
| <u>Salmon River</u> | | | | | | |
| Whitebird | (at) | 7000 | Apr-Sep | 3994 | 6949 | 101 |
| Challis | (nr) | 900 | Apr-Sep | -- | 900 | 100 |
| | | 790 | Apr-Jul | -- | 788 | 100 |
| <u>Clearwater River</u> | | | | | | |
| Spalding | (at) | 9700 | Apr-Sep | 6024 | 9215 | 105 |
| Kamiah | (at) | 5385 | Apr-Sep | -- | 5130 | 105 |
| | | 5160 | Apr-Jul | -- | 4915 | 105 |
| <u>North Fork</u> | | | | | | |
| Ahsahka | (nr) | 3570 | Apr-Sep | -- | 3400 | 105 |
| | | 3360 | Apr-Jul | -- | 3199 | 105 |
| <u>GREAT BASIN</u> | | | | | | |
| <u>BEAR RIVER</u> | | | | | | |
| Harer | (at) | 290 | Apr-Sep | 208 | 258 | 112 |
| <u>Montpelier Creek</u> | | | | | | |
| Montpelier | (nr) | 11 | Apr-Sep | -- | 11.8 | 93 |
| <u>Cub River</u> | | | | | | |
| Preston | (nr) | 45 | Apr-Sep | -- | 49 | 92 |

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.

VALLEY PRECIPITATION 1/

Division Averages and Departures

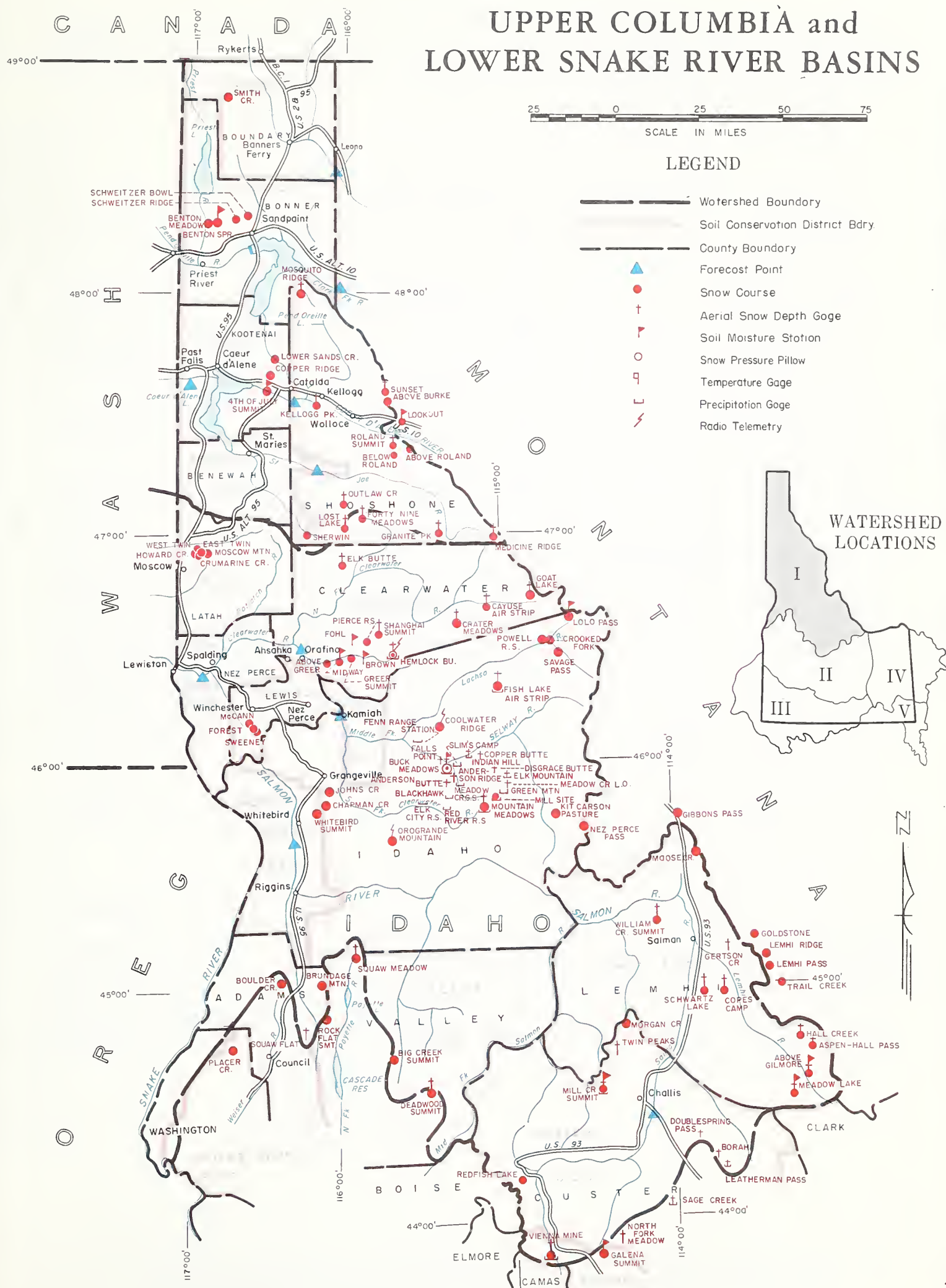
In Inches

| DRAINAGE DIVISIONS | Winter | | February 1967 | |
|--------------------------|---------------------|---------------------|---------------|---------------------|
| | Nov. 1966-Feb. 1967 | | | |
| | Observed | Departure <u>2/</u> | Observed | Departure <u>2/</u> |
| Kootenai, Canada & U. S. | 14.23 | +2.02 | 1.55 | -1.35 |
| Flathead | 10.39 | +1.79 | 1.35 | -0.63 |
| Clark Fork | 3.45 | -0.30 | 0.56 | -0.27 |
| Pend Oreille-Spokane | 18.25 | +2.12 | 1.99 | -1.65 |
| Upper Snake | 9.06 | +0.28 | 1.45 | -0.85 |
| Snake River Plain | 3.79 | +0.16 | 0.16 | -0.71 |
| Salmon-Payette-Boise | 10.03 | +0.59 | 0.63 | -1.70 |
| Clearwater | 11.64 | +0.21 | 1.10 | -1.47 |
| Southeastern Oregon | 5.05 | +0.68 | 0.12 | -0.91 |

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meterological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR ANO | LONG. | |

UPPER COLUMBIA BASIN

KOOTENAI RIVER

| | | | | | | |
|------|---|-------------|----|-----|----|------|
| 16A1 | I | Smith Creek | 29 | 64N | 3W | 4800 |
|------|---|-------------|----|-----|----|------|

PEND OREILLE - PRIEST RIVER

| | | | | | | |
|-------|---|------------------|----|-----|----|------|
| 16A2 | I | Benton Meadow | 27 | 58N | 4W | 2344 |
| 16A3M | I | Benton Spring | 30 | 58N | 3W | 4900 |
| 16A6 | I | Schweitzer Bowl | 20 | 58N | 2W | 4500 |
| 16A5 | I | Schweitzer Ridge | 19 | 58N | 2W | 6100 |

SPOKANE RIVER

| | | | | | | |
|--------|---|-----------------------|---------|-----|-----|------|
| 15B8 | I | Above Burke | 11 | 48N | 5E | 4100 |
| 15B7 | I | Above Roland | 35 | 47N | 6E | 4350 |
| 15B6 | I | Below Roland | 34 | 47N | 6E | 3770 |
| 16B2 | I | Copper Ridge | 6 & 7 | 50N | 1W | 4800 |
| 16B3M | I | Fourth of July Summit | 6 | 49N | 1W | 3100 |
| 15B13A | I | Granite Peak | 3 | 42N | 8E | 6000 |
| 16B5A | I | Kellogg Peak | 19 | 48N | 3E | 5560 |
| 15B2M | I | Lookout | 4 | 47N | 6E | 5250 |
| 16B1 | I | Lower Sands Creek | 32 | 51N | 1W | 3400 |
| 15B4A | I | Medicine Ridge | 24 | 43N | 10E | 6150 |
| 16A4A | I | Mosquito Ridge | 5 | 54N | 2E | 5110 |
| 15B12A | I | Outlaw Creek | 19 | 44N | 5E | 3750 |
| 15B5A | I | Roland Summit | 26 | 47N | 6E | 5200 |
| 16C1 | I | Sherwin | 28 & 33 | 42N | 1E | 3200 |
| 15B9A | I | Sunset | 28 | 49N | 5E | 5600 |

LOWER SNAKE BASIN

PALOUSE RIVER

| | | | | | | |
|-------|---|-----------------|----|-----|----|------|
| 16C6 | I | Crumarine Creek | 24 | 40N | 5W | 3500 |
| 16C3 | I | East Twin | 13 | 40N | 5W | 4000 |
| 16C5 | I | Howard Creek | 14 | 40N | 5W | 3500 |
| 16C2 | I | Moscow Mountain | 18 | 40N | 4W | 4800 |
| 16C4P | I | West Twin | 14 | 40N | 5W | 4200 |

LEGEND

Numbering System (example)

| | |
|--------|--|
| 10J7 | SNOW COURSE ONLY. |
| 10J7P | SNOW COURSE AND PRECIPITATION GAGE. |
| 10J7M | SNOW COURSE AND SOIL MOISTURE STATION. |
| 10J7A | SNOW COURSE AND AERIAL MARKER. |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER. |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY. |
| 10J7 a | AERIAL MARKER ONLY. |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY. |

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR AND | LONG. | |

CLEARWATER RIVER

| | | | | | | |
|---------|---|----------------------------|----|-----|-----|------|
| 16C11 | I | Above Greer | 14 | 35N | 2E | 1240 |
| 15D7a | I | Anderson Butte | 34 | 30N | 9E | 6800 |
| 15D8a | I | Anderson Ridge | 35 | 30N | 9E | 5400 |
| 15D9p | I | Blackhawk | 31 | 29N | 10E | 6080 |
| 16C14m | I | Brown | 11 | 35N | 3E | 3100 |
| 15D5APM | I | Buck Meadows | 26 | 31N | 8E | 5600 |
| 15C3A | I | Cayuse Airstrip | 4 | 38N | 11E | 3700 |
| 15C7 | I | Coolwater Mountain | 32 | 33N | 8E | 6200 |
| 15D10a | I | Copper Butte | 35 | 31N | 10E | 6000 |
| 15C9A | I | Crater Meadows | 2 | 37N | 9E | 6100 |
| 14C10 | I | Crooked Fork | 27 | 37N | 14E | 3800 |
| 15D11a | I | Disgrace Butte | 26 | 30N | 10E | 6600 |
| 16C15A | I | Elk Butte | 6 | 40N | 3E | 5550 |
| 15D12p | I | Elk City Rgr. Sta. | 23 | 29N | 8E | 4000 |
| 15D13ap | I | Elk Mountain | 34 | 30N | 11E | 6900 |
| 15C11a | I | Falls Point | 10 | 31N | 9E | 4600 |
| 15C12p | I | Fenn Ranger Station | 23 | 32N | 7E | 1580 |
| 15C2AP | I | Fish Lake Airstrip | 35 | 35N | 11E | 5000 |
| 15C8m | I | Fohl | 16 | 36N | 5E | 3450 |
| 16C9 | I | Forest | 1 | 32N | 3W | 4550 |
| 15B3A | I | Forty-nine Meadows | 6 | 43N | 5E | 5000 |
| 14C9A | I | Goat Lake | 4 | 38N | 13E | 6600 |
| 15D14p | I | Green Mountain | 15 | 28N | 11E | 7000 |
| 16C13 | I | Greer Summit | 13 | 35N | 2E | 3000 |
| 15C6AP | I | Hemlock Butte | 7 | 36N | 7E | 5500 |
| 15D21a | I | Horse Point | 4 | 30N | 9E | 5700 |
| 15D22ap | I | Indian Hill | 30 | 31N | 10E | 6100 |
| 14D3 | I | Kit Carson Pasture | 4 | 27N | 16E | 5020 |
| 14C5M | I | Lolo Pass | 16 | 38N | 15E | 5230 |
| 15B14A | I | Lost Lake | 16 | 43N | 4E | 6000 |
| 15D15p | I | Lower Horse Creek | 28 | 31N | 9E | 4100 |
| 16C8 | I | McCann | 25 | 33N | 3W | 4300 |
| 15D16p | I | Meadow Creek Guard Station | 5 | 29N | 10E | 2955 |
| 15D17a | I | Meadow Creek Lookout | 25 | 29N | 11E | 7000 |
| 16C12M | I | Midway | 14 | 35N | 2E | 2200 |
| 15D18P | I | Mill Site | 22 | 28N | 11E | 6700 |
| 15D6AP | I | Mountain Meadows | 9 | 27N | 10E | 6300 |
| 14D1 | M | Nez Perce Pass | 25 | 1S | 24W | 6575 |
| 15D4 | I | Orogrande Mountain | 24 | 27N | 6E | 7800 |
| 15C5 | I | Pierce Ranger Station | 2 | 36N | 5E | 3170 |
| 14C6 | I | Powell Ranger Station | 33 | 37N | 14E | 4230 |
| 15D19p | I | Red River Ranger Station | 4 | 27N | 9E | 4340 |
| 15D20a | I | Sable Hill | 14 | 29N | 10E | 6000 |
| 14C4 | I | Savage Pass | 18 | 36N | 15E | 6600 |
| 15C4A | I | Shanghai Summit | 7 | 37N | 6E | 4600 |
| 15C13p | I | Slim's Camp | 11 | 31N | 9E | 1850 |
| 16C10 | I | Sweeney | 1 | 32N | 3W | 4435 |

SALMON RIVER

| | | | | | | |
|---------|---|-------------------|---------|-----|-----|-------|
| 13E19MA | I | Above Gilmore | 13 | 13N | 26E | 8200 |
| 13E21A | I | Aspen-Hall Pass | 6 | 16N | 28E | 8110 |
| 15E2 | I | Big Creek Summit | 24 | 15N | 5E | 6600 |
| 13E8a | I | Borah | 21 | 10N | 23E | 8250 |
| 16D6 | I | Brundage Mountain | 7 | 19N | 3E | 7600 |
| 16D2 | I | Chapman Creek | 16 | 29N | 2E | 4215 |
| 13E17A | I | Copes Camp | 36 | 18N | 22E | 7500 |
| 13E23a | I | Doublespring Pass | 3 | 10N | 22E | 8400 |
| 13D17a | I | Gertson Creek | 22 | 22N | 23E | 8050 |
| 13D2 | M | Gibbons Pass | 4 | 2S | 19W | 7100 |
| 13D9 | M | Gold Stonw | 11 | 8S | 16W | 8100 |
| 13E20Q | I | HallCreek | 1 | 16N | 27E | 7560 |
| 16D3 | I | Johns Creek | 9 | 19N | 2E | 3805 |
| 13E22ap | I | Leatherman Pass | 20 | 9N | 23E | 9800 |
| 13E23 | M | Lemhi Ridge | 4 | 10S | 15W | 8100 |
| 13E18MA | I | Meadow Lake | 24 | 13N | 26E | 9100 |
| 14E1MAP | I | Mill Creek Summit | 8 | 13N | 17E | 8870 |
| 13D16 | I | Moose Creek | 22 & 26 | 27N | 21E | 6200 |
| 14E4 | I | Morgan Creek | 32 | 18N | 19E | 7580 |
| 14E2 | I | Redfish Lake | 3 | 9N | 13E | 6600 |
| 13E16A | I | Schwartz Lake | 34 | 18N | 22E | 8500 |
| 13E2 | M | Trail Creek | 15 | 10S | 15W | 7090 |
| 14E3a | I | Twin Peaks | 28 | 15N | 17E | 10300 |
| 14F4AP | I | Vienna Mine | 32 | 6N | 14E | 8900 |
| 16D5 | I | Whitebird Summit | 17 | 29N | 2E | 4390 |
| 14D4 | I | Williams Creek | 34 | 21N | 20E | 7800 |

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| NAME | NO. | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| | | | | | | LAST YEAR | AVERAGE ^b |

UPPER COLUMBIA RIVER BASINPEND OREILLE - PRIEST RIVER

| | | | | | | | |
|---------------------|------|------|------|-----|------|------|------|
| Benton Meadow | 16A2 | 2344 | 2/27 | 10 | 2.9 | 7.7 | 6.5 |
| Benton Spring | 16A3 | 4900 | 2/28 | 55 | 20.6 | 15.9 | 20.2 |
| #Mosquito Ridge (A) | 16A4 | 5110 | 2/27 | 138 | 47.1 | 33.3 | -- |
| Schweitzer Bowl | 16A6 | 4500 | 2/28 | 88 | 33.0 | 25.7 | -- |
| Schweitzer Ridge | 16A5 | 6100 | 2/28 | 123 | 47.8 | 34.8 | -- |

SPOKANE RIVER

| | | | | | | | |
|---------------------|-------|------|------|-----|------|------|-------|
| Copper Ridge | 16B2 | 4800 | 3/1 | 74 | 23.4 | 26.0 | 27.8 |
| #Forty-nine Meadows | 15B3 | 5000 | 2/28 | 83 | 31.0 | 26.2 | 32.1* |
| Fourth of July Smt. | 16B3 | 3100 | 3/1 | 24 | 7.6 | 11.0 | 11.0* |
| Granite Peak | 15B13 | 6000 | 2/28 | 123 | 48.2 | 32.2 | -- |
| Kellogg Peak (A) | 16B5 | 5560 | 2/27 | 84 | 28.6 | 28.6 | 30.8* |
| Lookout | 15B2 | 5250 | 3/1 | 103 | 35.6 | 27.1 | 34.8* |
| #Lost Lake | 15B14 | 6000 | 2/28 | 144 | 62.1 | 43.0 | -- |
| Lower Sands Creek | 16B1 | 3400 | 3/1 | 48 | 15.2 | 17.4 | 19.1* |
| Medicine Ridge | 15B4 | 6150 | 2/28 | 122 | 45.8 | 34.4 | -- |
| Mosquito Ridge (A) | 16A4 | 5110 | 2/27 | 138 | 47.1 | 33.3 | -- |
| Outlaw Creek | 15B12 | 3750 | 2/28 | 45 | 14.0 | 15.0 | -- |
| Pegleg Mountain | 15B15 | 5735 | 2/28 | 34 | 10.2 | -- | -- |
| Roland Summit (A) | 15B5 | 5200 | 2/27 | 92 | 31.4 | 26.5 | 38.4* |
| Sherwin | 16C1 | 3200 | 2/24 | 40 | 12.0 | 13.4 | -- |
| Sunset (A) | 15B9 | 5600 | 2/27 | 118 | 40.2 | 33.3 | 31.2* |
| Timber Camp Flat | 15B16 | 4300 | 2/28 | 61 | 18.2 | -- | -- |

LOWER SNAKE RIVER BASINPALOUSE RIVER

| | | | | | | | |
|-----------------------|------|------|------|----|------|------|-------|
| Crumarine Creek | 16C6 | 3500 | 2/25 | 11 | 4.0 | 9.4 | 7.0* |
| East Twin | 16C3 | 4000 | 2/25 | 24 | 8.3 | 15.7 | 12.4* |
| Moscow Mountain | 16C2 | 4800 | 2/25 | 39 | 11.9 | 18.4 | 17.7* |
| Upper Moscow Mountain | 16C7 | 4950 | 2/25 | 45 | 13.0 | 18.5 | -- |
| West Twin | 16C4 | 4200 | 2/25 | 22 | 6.1 | 12.6 | 11.3* |

(b) 1948-62, 15 year period. # Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |

CLEARWATER RIVER

| | | | | | | | |
|-------------------------|-------|------|------|-----|------|------|-------|
| Above Greer | 16C11 | 1240 | 3/1 | 0 | 0.0 | 0.0 | -- |
| Buck Meadows | 15D5 | 5600 | 2/24 | 81 | 28.0 | 19.6 | -- |
| Buck Meadows (SP) | 15D5 | 5600 | 2/24 | -- | 27.8 | -- | -- |
| Cayuse Airstrip | 15C3 | 3700 | 2/26 | 30 | 13.8 | 10.3 | 11.9* |
| Coolwater Mountain (R) | 15C7 | 6200 | 2/28 | -- | 26.4 | 20.4 | -- |
| Crater Meadows | 15C9 | 6100 | 2/26 | 117 | 51.4 | 29.8 | -- |
| Crooked Fork | 14C10 | 3800 | 2/23 | 42 | 12.0 | 11.3 | -- |
| Elk Butte | 16C15 | 5550 | 2/28 | 104 | 41.9 | 31.2 | -- |
| Fish Lake Airstrip | 15C2 | 5000 | 2/26 | 108 | 39.8 | 31.6 | 39.9* |
| Forest | 16C9 | 4550 | 2/28 | 14 | 4.6 | 9.2 | 7.8* |
| Forty-nine Meadows | 15B3 | 5000 | 2/28 | 83 | 31.0 | 26.2 | 32.1* |
| Goat Lake | 14C9 | 6600 | 2/26 | 126 | 47.2 | 39.9 | -- |
| #Granite Peak | 15B13 | 6000 | 2/28 | 123 | 48.2 | 32.2 | -- |
| Greer Summit | 16C13 | 3000 | 3/1 | 0 | 0.0 | 3.0 | -- |
| Hemlock Butte | 16C6 | 5500 | 2/26 | 123 | 50.4 | 32.5 | -- |
| Hemlock Butte (R) | 16C6 | 5500 | 2/28 | -- | 47.5 | 32.9 | -- |
| #Hoodoo Creek Mont. | 15C1 | 5900 | 3/2 | 132 | 46.1 | 34.6 | 45.3* |
| #Hoodoo Creek (SP)Mont. | 15C8 | 6000 | 2/28 | -- | 45.5 | -- | -- |
| Lolo Pass | 14C5 | 5230 | 2/24 | 93 | 31.3 | 20.2 | 32.2* |
| Lost Lake | 15B14 | 6000 | 2/28 | 144 | 62.1 | 43.0 | -- |
| McCann | 16C8 | 4300 | 2/28 | 13 | 4.9 | 8.6 | 7.8* |
| #Medicine Ridge | 15B4 | 6150 | 2/28 | 122 | 45.8 | 34.4 | -- |
| Midway | 16C12 | 2200 | 3/1 | 0 | 0.0 | 0.0 | -- |
| Mountain Meadows | 15D6 | 6300 | 2/24 | 66 | 20.6 | 18.6 | -- |
| #Nez Perce Pass Mont. | 14D1 | 6570 | 2/27 | 50 | 16.8 | 10.4 | 14.8* |
| Orogrande Mountain (R) | 15D4 | 7800 | 2/28 | -- | 32.4 | -- | -- |
| Pierce Ranger Station | 15C5 | 3170 | 2/27 | 30 | 9.2 | 11.1 | 11.2* |
| Powell Ranger Station | 14C6 | 4230 | 2/23 | 40 | 12.2 | 11.6 | 14.1* |
| Savage Pass | 14C4 | 6600 | 2/24 | 76 | 26.0 | 21.2 | 25.0* |
| Shanghai Summit | 15C4 | 4600 | 2/26 | 70 | 30.2 | 15.8 | -- |
| Sweeney | 16C10 | 4435 | 2/28 | 17 | 5.6 | 8.1 | -- |

SALMON RIVER

| | | | | | | | |
|-----------------------|-------|------|------|-----|------|------|-------|
| Big Creek Summit | 15E2 | 6600 | 2/26 | 93 | 32.1 | 22.8 | 31.4* |
| Borah (A) | 13E8 | 8250 | 2/28 | 12 | 3.8 | 4.4 | -- |
| #Boulder Creek | 16D1 | 5500 | 2/23 | 61 | 19.8 | 19.5 | -- |
| Brundage Mountain | 16D6 | 7600 | 2/24 | 124 | 48.5 | 30.5 | -- |
| Chapman Creek | 16D2 | 4215 | 2/26 | 4 | 1.0 | 4.2 | 2.6* |
| #Deadwood Summit (A) | 15E4 | 7000 | 2/24 | 117 | 45.7 | 31.0 | 43.3* |
| Doublespring Pass (A) | 13E25 | 8400 | 2/28 | 32 | 10.5 | -- | -- |

(b) 1948-62, 15 year period. # Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-------|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |
| #Galena Summit | 14F12 | 8795 | 2/25 | 62 | 20.4 | 14.8 | 19.7* |
| #Gibbons Pass Mont. | 13D2 | 7100 | 2/22 | 66 | 21.2 | 12.6 | 21.0 |
| Johns Creek | 16D3 | 3805 | 2/26 | T | T | 2.2 | 2.6* |
| Leatherman Pass (A) | 13E24 | 9800 | 2/28 | 65 | 19.9 | -- | -- |
| #Lemhi Pass Mont. | 13E1 | 7480 | 2/27 | 29 | 7.2 | 5.4 | 7.1 |
| #Lemhi Ridge Mont. | 13E23 | 8100 | 2/27 | 31 | 8.0 | -- | -- |
| Mill Creek Summit | 14E1 | 8870 | 2/26 | 56 | 18.3 | 14.5 | -- |
| Moose Creek | 13D16 | 6200 | 3/1 | 48 | 16.0 | 10.6 | 14.9 |
| Morgan Creek | 14E4 | 7580 | 2/28 | 43 | 13.1 | 9.0 | -- |
| Redfish Lake | 14E2 | 6600 | 2/28 | 25 | 6.9 | 6.0 | -- |
| #Rock Flat Summit | 16E1 | 5200 | 2/24 | 53 | 16.8 | 11.6 | 16.8 |
| #Squaw Flat (A) | 16E5 | 6230 | 2/24 | 67 | 23.1 | 20.9 | -- |
| #Squaw Meadow (A) | 15D2 | 5800 | 2/24 | 99 | 38.7 | 27.4 | 35.0* |
| Twin Peaks (A) | 14E3 | 10300 | 2/28 | 69 | 22.7 | 16.3 | -- |
| Vienna Mine | 14F4 | 8900 | 2/27 | 79 | 26.0 | 17.3 | 30.1* |
| Whitebird Summit | 16D5 | 4390 | 2/26 | 14 | 4.3 | 6.2 | 6.1* |
| Williams Creek Summit | 14D4 | 7800 | 2/28 | 40 | 11.6 | 5.6 | 11.5* |

Lemhi River

| | | | | | | | |
|-------------------|-------|------|------|----|------|------|----|
| Above Gilmore | 13E19 | 8200 | 3/2 | 34 | 7.9 | 6.2 | -- |
| Aspen-Hall Pass | 13E21 | 8110 | 3/2 | 40 | 8.7 | 5.6 | -- |
| Copes Camp | 13E17 | 7500 | 3/1 | 27 | 6.7 | 5.3 | -- |
| Gertson Creek (A) | 13D17 | 8050 | 2/28 | 44 | 13.4 | 5.2 | -- |
| Hall Creek | 13E20 | 7560 | 3/2 | 27 | 5.8 | 3.1 | -- |
| Meadow Lake | 13E18 | 9100 | 3/2 | 54 | 17.5 | 11.8 | -- |
| Schwartz Lake | 13E16 | 8500 | 3/1 | 36 | 9.9 | 7.3 | -- |

SOIL MOISTURE

| STATION | | PROFILE (Inches) | | SOIL MOISTURE (Inches) | | | |
|-------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
| | | DEPTH | CAPACITY | DATE | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME | ELEVATION | | | | | | |
| <u>SPOKANE RIVER</u> | | | | | | | |
| Fourth of July Summit | 3100 | 48 | 11.6 | 3/1 | 10.2 | 10.0 | 10.3 |
| Lookout | 5250 | 48 | 11.0 | 3/1 | 8.1 | 8.0 | 8.7 |
| <u>CLEARWATER RIVER</u> | | | | | | | |
| Brown | 3100 | 30 | 6.7 | 3/4 | 5.6 | 5.2 | 5.6 |
| Midway | 2200 | 36 | 6.1 | 3/4 | 5.0 | 5.2 | 5.0 |
| <u>SALMON RIVER</u> | | | | | | | |
| Mill Creek Summit | 8870 | 48 | 8.4 | 2/26 | 3.1 | 4.8 | 3.0 |
| <u>Lemhi River</u> | | | | | | | |
| Above Gilmore | 8200 | 60 | 5.4 | 3/2 | 1.8 | 2.8 | 2.3 |
| Meadow Lake | 9100 | 48 | 4.4 | 3/2 | 1.5 | 2.1 | 2.1 |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

| | | | | | | | |
|---------------------|------|------|------|----|------|-----|-------|
| Fairview Guard Sta. | 13E5 | 6750 | 2/24 | 18 | 5.4 | 3.0 | 4.6* |
| Lost Garfield | 13E3 | 6600 | 2/24 | 15 | 4.5 | 3.0 | 3.9* |
| Moonshine | 13E6 | 7450 | 2/25 | 38 | 12.2 | 5.8 | 10.2* |
| Sawmill Canyon | 13E4 | 6900 | 2/25 | 31 | 9.4 | 4.5 | 8.1* |
| Wet Creek Summit | 13E7 | 7600 | 2/28 | 49 | 16.2 | 6.6 | 9.4* |

BIG LOST RIVER

| | | | | | | | |
|------------------------|-------|------|------|----|------|------|-------|
| Bear Canyon | 13F3 | 8600 | 2/27 | 64 | 22.4 | 12.0 | 15.1* |
| Cherry Creek Pass (A) | 13F13 | 8900 | 2/27 | 5 | 1.6 | 1.3 | -- |
| Copper Basin | 13F2 | 8000 | 2/27 | 40 | 12.4 | 6.8 | 7.7 |
| #Doublespring Pass (A) | 13E25 | 8400 | 2/28 | 32 | 10.5 | -- | -- |
| Dry Fork (A) | 13F20 | 7340 | 2/27 | 59 | 19.4 | -- | -- |
| Iron Bog | 13F11 | 7650 | 2/27 | 53 | 19.0 | 11.5 | -- |
| Leadbelt | 13F12 | 6800 | 2/27 | 41 | 14.3 | 7.0 | -- |
| #Leatherman Pass (A) | 13E24 | 9800 | 2/28 | 65 | 19.9 | -- | -- |
| Lost-Wood Divide (A) | 14F3 | 7900 | 2/27 | 76 | 25.0 | 14.0 | 20.8* |
| Mammoth Canyon (A) | 13F17 | 8300 | 2/27 | 21 | 6.6 | -- | -- |
| North Fork Meadow (A) | 14F15 | 8150 | 2/27 | 43 | 14.1 | 8.8 | -- |
| Sage Creek (A) | 14E5 | 7800 | 2/28 | 21 | 6.9 | -- | -- |
| Slickrock (A) | 13F14 | 8640 | 2/27 | 59 | 19.4 | 11.8 | -- |
| Stickney Mill | 14F2 | 7500 | 2/27 | 38 | 11.1 | 6.0 | 7.6 |
| White Knob | 13F1 | 7700 | 3/1 | 32 | 10.1 | 4.8 | 7.0* |

FISH CREEK

| | | | | | | | |
|-----------------|-------|------|------|----|------|-----|------|
| #Dry Fork (A) | 13F20 | 7340 | 2/27 | 59 | 19.4 | -- | -- |
| Iron Mine Creek | 13F10 | 6370 | 2/27 | 42 | 12.3 | 6.4 | 9.3* |
| Telfer Ranch | 13F6 | 6000 | 2/27 | 36 | 10.6 | 6.2 | 7.9* |

LITTLE WOOD RIVER

| | | | | | | | |
|--------------------|-------|------|------|----|------|------|-------|
| #Bear Canyon | 13F3 | 8600 | 2/27 | 64 | 22.4 | 12.0 | 15.1* |
| Garfield Rgr. Sta. | 13F4 | 6554 | 2/28 | 39 | 12.0 | 7.7 | 10.3* |
| Muldoon | 13F5 | 6300 | 2/28 | 31 | 9.5 | 7.2 | 8.0* |
| Porcupine (A) | 14F14 | 8350 | 2/27 | 58 | 19.5 | 12.8 | -- |
| Swede Peak | 13F9 | 7500 | 2/28 | 59 | 19.8 | 12.5 | 14.8* |

BIG WOOD RIVER

| | | | | | | | |
|-----------------------|-------|------|------|----|------|------|-------|
| Camas Creeks Div. (A) | 15F9 | 5720 | 2/24 | 29 | 10.8 | 6.4 | -- |
| #Couch Summit | 14F10 | 6950 | 2/27 | 62 | 20.7 | 13.1 | 16.8 |
| Dollarhide Summit (A) | 14F8 | 8620 | 2/27 | 66 | 20.2 | 14.0 | 23.3* |
| Galena | 14F1 | 7300 | 2/25 | 56 | 18.4 | 12.8 | 16.9* |
| Galena Summit | 14F12 | 8795 | 2/25 | 62 | 20.4 | 14.8 | 19.7* |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▼ Soil Moisture Station
- Snow Pressure
- Temperature Gage
- ⌒ Precipitation Gage
- ⚡ Radio Telemetry

INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR ANO | LONG. | |

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

| | | | | | | |
|---------|---|------------------------|----|-----|-----|------|
| 13E5M | I | Fairview Guard Station | 27 | 12N | 26E | 6750 |
| 13E3 | I | Lost-Garfield | 3 | 11N | 26E | 6600 |
| 13E6 | I | Moonshine | 31 | 13N | 26E | 7450 |
| 13E4 | I | Sawmill Canyon | 17 | 12N | 26E | 6900 |
| 13E7MAP | I | Wet Creek Summit | 15 | 8N | 25E | 7600 |

BIG LOST RIVER

| | | | | | | |
|---------|---|---------------------|----|----|-----|------|
| 13F18p | I | Antelope Pass | 7 | 5N | 23E | 8800 |
| 13F3 | I | Bear Canyon | 26 | 5N | 21E | 8600 |
| 13F13a | I | Cherry Creek Pass | 7 | 5N | 23E | 8900 |
| 13F2A | I | Copper Basin | 24 | 6N | 21E | 8000 |
| 13F19p | I | Corral Creek Summit | 25 | 7N | 22E | 8550 |
| 13F20ap | I | Dry Fork | 23 | 3N | 23E | 7340 |
| 13F11 | I | Iron Bog | 23 | 4N | 22E | 7650 |
| 13F12 | I | Leadbelt | 34 | 4N | 23E | 6800 |
| 14F3A | I | Lost Wood Divide | 19 | 6N | 19E | 7900 |
| 13F17ap | I | Mammoth Canyon | 14 | 6N | 23E | 8300 |
| 14F15a | I | North Fork Meadows | 20 | 7N | 18E | 8150 |
| 14F6p | I | Park Creek | 18 | 6N | 19E | 7685 |
| 14E5ap | I | Sage Creek | 12 | 9N | 20E | 7800 |
| 13F14ap | I | Slickrock | 17 | 4N | 22E | 8640 |
| 14F2A | I | Stickney Mill | 9 | 6N | 19E | 7500 |
| 13F15a | I | Twin Rocks | 22 | 4N | 22E | 8100 |
| 13F1 | I | White Knobs | 25 | 7N | 23E | 7700 |

BIG WOOD RIVER

| | | | | | | |
|---------|---|------------------------|----|----|-----|------|
| 15F9a | I | Camas Creek Divide | 11 | 2S | 9E | 5720 |
| 14F8AP | I | Dollarhide Summit | 16 | 3N | 15E | 8620 |
| 14F1M | I | Galena | 3 | 6N | 15E | 7300 |
| 14F12MP | I | Galena Summit | 33 | 7N | 15E | 8795 |
| 14F5 | I | Graham Ranch | 10 | 5N | 17E | 6200 |
| 14F7 | I | Mascot Mine | 8 | 4N | 20E | 7900 |
| 14F9 | I | Mount Baldy | 26 | 4N | 17E | 9000 |
| 14F11 | I | Soldier Ranger Station | 19 | 2N | 14E | 6100 |

LITTLE WOOD RIVER

| | | | | | | |
|--------|---|-------------------------|----|----|-----|------|
| 13F4M | I | Garfield Ranger Station | 11 | 3N | 21E | 6554 |
| 13F5 | I | Muldoon | 25 | 3N | 21E | 6300 |
| 14F13m | I | Niggerhead | 26 | 2N | 20E | 5450 |
| 14F14a | I | Porcupine | 30 | 4N | 20E | 8350 |
| 13F9A | I | Swede Peak | 4 | 3N | 21E | 7500 |

FISH CREEK

| | | | | | | |
|-------|---|-----------------|----|----|-----|------|
| 13F10 | I | Iron Mine Creek | 32 | 3N | 23E | 6370 |
| 13F6 | I | Telfer Ranch | 12 | 2N | 22E | 6000 |

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR ANO | LONG. | |

BOISE RIVER

| | | | | | | |
|--------|---|----------------------|----|----|-----|------|
| 15F4AP | I | Atlanta Summit | 23 | 5N | 10E | 7500 |
| 15F2M | I | Bad Bear | 35 | 7N | 6E | 5500 |
| 16F4 | I | Bogus Basin | 32 | 5N | 3E | 5360 |
| 16F5m | I | Bogus Basin Road | 36 | 5N | 2E | 4830 |
| 14F10A | I | Couch Summit | 9 | 2N | 14E | 6950 |
| 15F10a | I | Danskin | 17 | 1N | 7E | 5650 |
| 16F1 | I | Deadman Gulch | 29 | 7N | 4E | 5600 |
| 15E9AP | I | Jackson Peak | 7 | 8N | 9E | 7000 |
| 15F1MP | I | Moore's Creek Summit | 19 | 7N | 7E | 6100 |
| 15F6P | I | Prairie | 13 | 2N | 7E | 4900 |
| 15F3A | I | Road Creek | 5 | 5N | 8E | 5550 |
| 15F5AP | I | Trinity Mountain | 7 | 3N | 9E | 7400 |
| 15F11a | I | Willow Creek Cabin | 26 | 1N | 6E | 4710 |

CANYON CREEK

| | | | | | | |
|--------|---|-------------------|----|----|----|------|
| 15F7 | I | Bennett Mountain | 7 | 2S | 9E | 6650 |
| 15F8 | I | Dixie Hill | 13 | 2S | 8E | 5230 |
| 15F12a | I | Little Camas Flat | 21 | 1S | 9E | 4950 |
| 15F13a | I | Long Tom | 19 | 1S | 8E | 4550 |

PAYETTE RIVER

| | | | | | | |
|--------|---|-------------------------|----|-----|----|------|
| 16F2MP | I | Bogus Basin | 16 | 5N | 3E | 6120 |
| 15E8 | I | Cozy Cove | 19 | 11N | 7E | 5900 |
| 15E3 | I | Crawford Ranger Station | 21 | 14N | 4E | 4800 |
| 15E10 | I | Deadwood Airstrip | 8 | 11N | 7E | 5440 |
| 15E7 | I | Deadwood Dam | 8 | 11N | 7E | 5290 |
| 15E4A | I | Deadwood Summit | 23 | 14N | 7E | 7000 |
| 16E7a | I | Greenfield Flat | 1 | 13N | 2E | 7370 |
| 16E4 | I | High Valley Summit | 9 | 10N | 2E | 5170 |
| 15E1 | I | Lake Fork | 3 | 18N | 4E | 6000 |
| 16E1 | I | Rock Flat Summit | 1 | 18N | 2E | 5200 |
| 15E5A | I | Silver Creek Ridge | 24 | 12N | 5E | 5700 |
| 15D2A | I | Squaw Meadows | 5 | 21N | 4E | 5800 |
| 16E3 | I | Tripod Summit | 17 | 11N | 3E | 5200 |

WEISER RIVER

| | | | | | | |
|-------|---|---------------|---------|-----|----|------|
| 16D1P | I | Boulder Creek | 15 | 20N | 1W | 5500 |
| 16E6a | I | Mica Ridge | 15 | 15N | 2E | 6800 |
| 16E2 | I | Placer Creek | 15 & 16 | 17N | 3W | 6000 |
| 16E5a | I | Squaw Flat | 32 | 17N | 2E | 6230 |

LEGEND

Numbering System (example)

| | |
|--------|--|
| 10J7 | SNOW COURSE ONLY. |
| 10J7P | SNOW COURSE AND PRECIPITATION GAGE. |
| 10J7M | SNOW COURSE AND SOIL MOISTURE STATION. |
| 10J7A | SNOW COURSE AND AERIAL MARKER. |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER. |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY. |
| 10J7 a | AERIAL MARKER ONLY. |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY. |

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-------|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |
| Graham Ranch | 14F5 | 6200 | 3/1 | 46 | 13.8 | 10.2 | 11.9 |
| #Lost Wood Divide (A) | 14F3 | 7900 | 2/27 | 76 | 25.0 | 14.0 | 20.8* |
| Mascot Mine | 14F7 | 7900 | 2/24 | 48 | 15.1 | 9.0 | 12.6* |
| Mount Baldy | 14F9 | 9000 | 3/1 | 62 | 19.0 | 13.6 | 17.8* |
| #Porcupine (A) | 14F14 | 8350 | 2/27 | 58 | 19.5 | 12.8 | -- |
| Soldier Rgr. Sta. | 14F11 | 6100 | 2/27 | 38 | 12.3 | 8.8 | 11.6 |
| #Vienna Mine (A) | 14F4 | 8900 | 2/27 | 79 | 26.0 | 17.3 | 30.1* |

CANYON CREEK

| | | | | | | | |
|------------------------|-------|------|------|----|------|-----|----|
| Bennett Mountain | 15F7 | 6650 | 2/27 | 48 | 16.1 | 9.0 | -- |
| #Camas Creeks Div. (A) | 15F9 | 5720 | 2/24 | 29 | 10.8 | 6.4 | -- |
| #Danskin (A) | 15F10 | 5650 | 2/24 | 39 | 14.5 | 7.7 | -- |
| Little Camas Flat (A) | 15F12 | 4950 | 2/24 | 6 | 2.0 | 2.2 | -- |
| Long Tom (A) | 15F13 | 4550 | 2/24 | 1 | 0.3 | 0.0 | -- |
| #Willow Creek Cabin(A) | 15F11 | 4710 | 2/24 | 2 | 0.6 | T | -- |

BOISE RIVER

| | | | | | | | |
|------------------------|-------|------|------|-----|------|------|-------|
| Atlanta Summit (A) | 15F4 | 7500 | 2/24 | 88 | 30.4 | 23.2 | 30.1* |
| Bad Bear | 15F2 | 5500 | 2/27 | 32 | 11.9 | 11.8 | -- |
| #Bennett Mountain | 15F7 | 6650 | 2/27 | 48 | 16.1 | 9.0 | -- |
| #Bogus Basin | 16F2 | 6120 | 3/1 | 61 | 19.5 | 13.8 | 20.3 |
| #Bogus Basin (SP) | 16F2 | 6120 | 3/1 | -- | 18.7 | 16.2 | -- |
| Bogus Basin Road | 16F4 | 5360 | 3/1 | 13 | 4.4 | 5.0 | 3.0* |
| #Camas Creeks Div. (A) | 15F9 | 5720 | 2/24 | 29 | 10.8 | 6.4 | -- |
| Couch Summit | 14F10 | 6950 | 2/27 | 62 | 20.7 | 13.1 | 16.8 |
| Danskin (A) | 15F10 | 5650 | 2/24 | 39 | 14.5 | 7.7 | -- |
| Deadman Gulch | 16F1 | 5600 | 2/28 | 37 | 12.7 | 10.5 | 14.6* |
| #Dollarhide Summit (A) | 14F8 | 8620 | 2/27 | 66 | 20.2 | 14.0 | 23.3* |
| Jackson Peak | 15E9 | 7000 | 2/25 | 75 | 26.2 | 22.2 | 27.4* |
| #Little Camas Flat (A) | 15F12 | 4950 | 2/24 | 6 | 2.0 | 2.2 | -- |
| #Long Tom (A) | 15F13 | 4550 | 2/24 | 1 | 0.3 | 0.0 | -- |
| Moore's Creek Summit | 15F1 | 6100 | 2/27 | 80 | 27.6 | 21.3 | 29.0 |
| Prairie | 15F6 | 4900 | 2/28 | 14 | 4.7 | 1.9 | 5.2* |
| Road Creek | 15F3 | 5550 | 2/25 | 25 | 6.8 | 6.8 | 10.4* |
| #Soldier Rgr. Sta. | 14F11 | 6100 | 2/27 | 38 | 12.3 | 8.8 | 11.6 |
| Trinity Mountain (A) | 15F5 | 7400 | 2/24 | 106 | 41.4 | 30.1 | 39.3 |
| Trinity Mountain (SP) | 15F5 | 7400 | 3/1 | -- | 41.4 | 26.6 | -- |
| #Vienna Mine (A) | 14F4 | 8900 | 2/27 | 79 | 26.0 | 17.3 | 30.1* |
| Willow Creek Cabin (A) | 15F11 | 4710 | 2/24 | 2 | 0.6 | T | -- |

PAYETTE RIVER

| | | | | | | | |
|--------------------|------|------|------|-----|------|------|-------|
| #Big Creek Summit | 15E2 | 6600 | 2/26 | 93 | 32.1 | 22.8 | 31.4* |
| Bogus Basin | 16F2 | 6120 | 3/1 | 61 | 19.5 | 13.8 | 20.3 |
| Bogus Basin (SP) | 16F2 | 6120 | 3/1 | -- | 18.7 | 16.2 | -- |
| #Brundage Mountain | 16D6 | 7700 | 2/24 | 124 | 48.5 | 30.5 | -- |
| Cozy Cove | 15E8 | 5900 | 2/23 | 44 | 12.2 | 14.7 | 15.7 |
| Crawford Rgr. Sta. | 15E3 | 4800 | 2/26 | 24 | 7.2 | 7.8 | 7.4* |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-------|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |
| #Deadman Gulch | 16F1 | 5600 | 2/28 | 37 | 12.7 | 10.5 | 14.6* |
| Deadwood Airstrip | 15E10 | 5440 | 2/23 | 42 | 12.0 | 13.7 | 13.8* |
| Deadwood Dam | 15E7 | 5290 | 2/23 | 48 | 13.6 | 14.4 | 16.4 |
| Deadwood Summit (A) | 15E4 | 7000 | 2/24 | 117 | 45.7 | 31.0 | 43.3* |
| Greenfield Flat (A) | 16E7 | 7370 | 2/24 | 108 | 37.3 | 26.1 | -- |
| High Valley Summit | 16E4 | 5170 | 3/1 | 33 | 8.8 | 7.6 | -- |
| #Jackson Peak | 15E9 | 7000 | 2/25 | 75 | 26.2 | 22.2 | 27.4* |
| Lake Fork | 15E1 | 6000 | 2/24 | 49 | 15.2 | 10.8 | 16.8* |
| #Mica Ridge (A) | 16E6 | 6800 | 2/24 | 90 | 31.0 | 22.2 | -- |
| Rock Flat Summit | 16E1 | 5200 | 2/24 | 53 | 16.8 | 11.6 | 16.8 |
| Silver Creek Ridge (A) | 15E5 | 5700 | 2/24 | 46 | 12.7 | 12.0 | -- |
| #Squaw Flat (A) | 16E5 | 6230 | 2/24 | 67 | 23.1 | 20.9 | -- |
| Squaw Meadow (A) | 15D2 | 5800 | 2/24 | 99 | 38.7 | 27.4 | 35.0* |
| Tripod Summit | 16E3 | 5200 | 2/26 | 48 | 15.0 | 12.1 | -- |

WEISER RIVER

| | | | | | | | |
|----------------|------|------|------|----|------|------|----|
| Boulder Creek | 16D1 | 5500 | 2/23 | 61 | 19.8 | 19.5 | -- |
| Mica Ridge (A) | 16E6 | 6800 | 2/24 | 90 | 31.0 | 22.2 | -- |
| Placer Creek | 16E2 | 6000 | 2/24 | 49 | 15.3 | 11.0 | -- |
| Squaw Flat (A) | 16E5 | 6230 | 2/24 | 67 | 23.1 | 20.9 | -- |

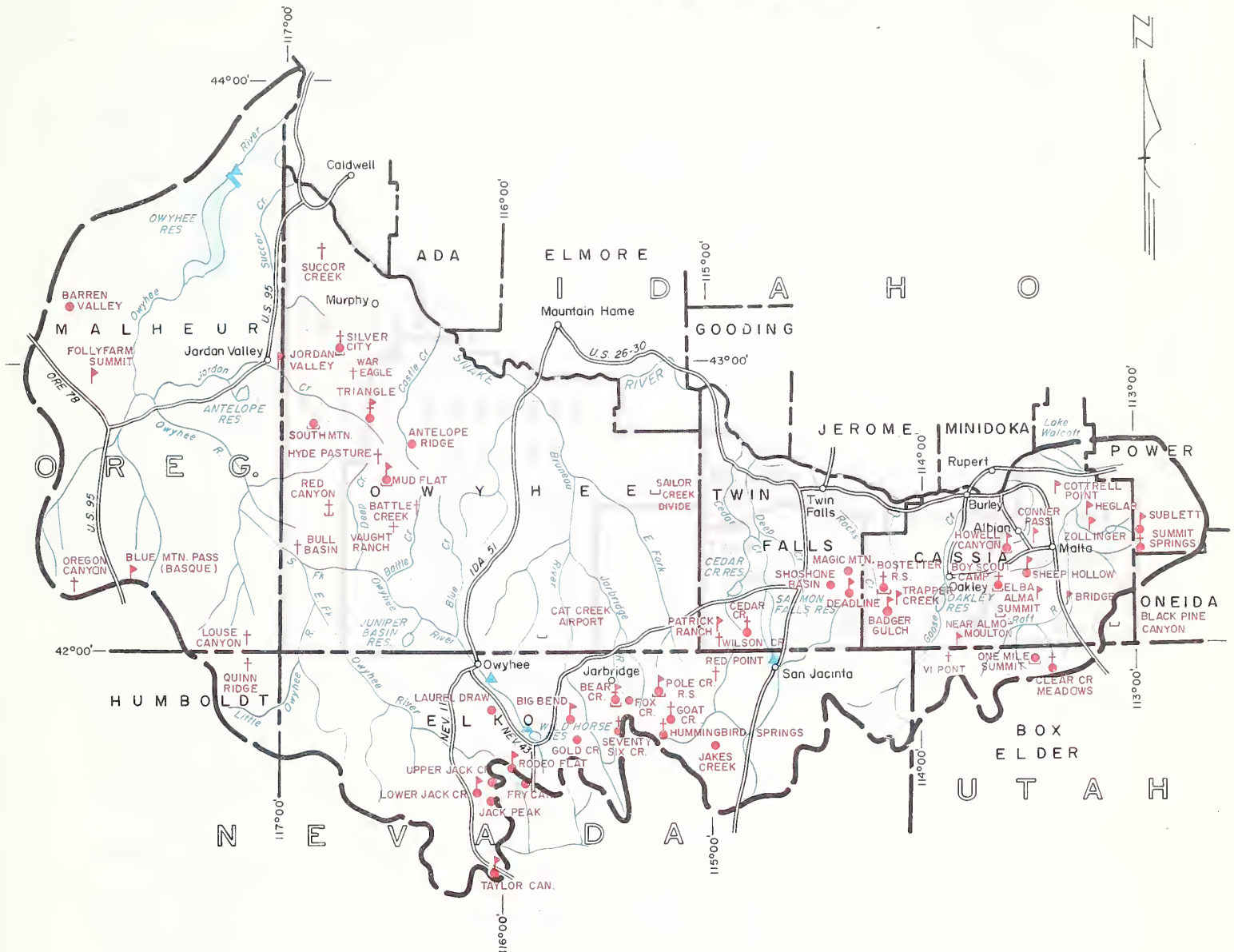
SOIL MOISTURE

| STATION | | PROFILE (Inches) | | SOIL MOISTURE (Inches) | | | |
|--------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
| | | DEPTH | CAPACITY | DATE | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME | ELEVATION | | | | | | |
| <u>LITTLE WOOD RIVER</u> | | | | | | | |
| Garfield R. S. | 6554 | 36 | 5.2 | 2/28 | 3.7 | 2.8 | 4.5 |
| <u>BIG WOOD RIVER</u> | | | | | | | |
| Galena | 7300 | 48 | 10.1 | 2/25 | 5.9 | 6.1 | -- |
| Galena Summit | 8795 | 48 | 5.8 | 2/25 | 1.5 | 1.9 | -- |
| <u>BOISE RIVER</u> | | | | | | | |
| Bogus Basin | 6120 | 48 | 13.1 | 3/1 | 9.1 | -- | -- |
| Bogus Basin Road | 4830 | 48 | 7.1 | 3/1 | 5.9 | 5.1 | 5.6* |
| Moore's Creek Summit | 6100 | 60 | 8.8 | 2/27 | 7.5 | 7.5 | -- |
| *February Measurement | | | | | | | |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

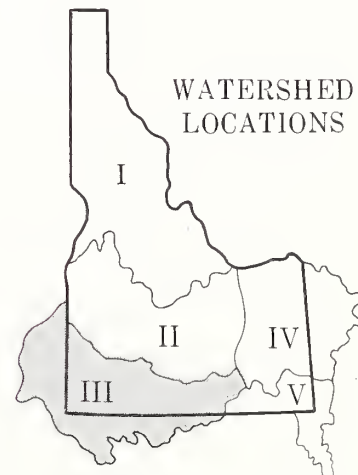
25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▴ Sail Moisture Station
- 9 Temperature Gage
- ⊥ Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR AND | LONG. | |

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

| | | | | | | |
|--------|---|---------------------|----|-----|-----|------|
| 13G15p | I | Black Pine Canyon | 28 | 15S | 29E | 7100 |
| 13G2AP | I | Boy Scout Camp | 8 | 14S | 24E | 7600 |
| 13H2A | U | Clear Creek Meadows | 26 | 14N | 14W | 9050 |
| 13G6m | I | Conner Pass | 35 | 12S | 25E | 5700 |
| 13G7m | I | Cottrell Point | 24 | 10S | 25E | 4490 |
| 13G10m | I | Elba-Almo Summit | 29 | 14S | 25E | 5690 |
| 13G8m | I | Helgar | 19 | 11S | 28E | 4590 |
| 13G1MP | I | Howell Canyon | 2 | 13S | 24E | 8000 |
| 13G12m | I | Moulton | 27 | 16S | 23E | 5950 |
| 13G14p | I | Near Almo | 35 | 15S | 24E | 5200 |
| 13H1P | U | One Mile Summit | 19 | 14N | 14W | 7330 |
| 13G5M | I | Sheep Hollow | 4 | 14S | 24E | 6200 |
| 13G3M | I | Sublett | 8 | 12S | 30E | 6000 |
| 13G4A | I | Summit Springs | 15 | 13S | 30E | 6400 |
| 13G9m | I | Zollinger | 2 | 13S | 28E | 5000 |

GOOSE - TRAPPER CREEK

| | | | | | | |
|--------|---|--------------------------|----|-----|-----|------|
| 14G3M | I | Badger Gulch | 24 | 15S | 19E | 6660 |
| 14G1AP | I | Bostetter Ranger Station | 35 | 14S | 19E | 7500 |
| 14G7m | I | Trapper Creek | 2 | 15S | 20E | 5300 |
| 13H3a | U | Vi Pont | 17 | 14N | 17W | 7670 |

SALMON FALLS CREEK

| | | | | | | |
|--------|---|----------------|----|-----|-----|------|
| 14G5A | I | Cedar Creek | 25 | 15S | 13E | 7000 |
| 14G4M | I | Deadline | 25 | 14S | 18E | 6900 |
| 15H13A | N | Goat Creek | 31 | 46N | 60E | 8800 |
| 14H1 | N | Jakes Creek | 6 | 42N | 62E | 7000 |
| 14G2 | I | Magic Mountain | 14 | 14S | 18E | 6700 |
| 15G1m | I | Patrick Ranch | 23 | 15S | 12E | 5720 |
| 15H18a | N | Red Point | 15 | 47N | 61E | 7940 |
| 14G6 | I | Shoshone Basin | 24 | 14S | 17E | 5740 |
| 15G2a | I | Wilson Creek | 24 | 16S | 12E | 7500 |

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR AND | LONG. | |

BRUNEAU RIVER

| | | | | | | |
|---------|---|---------------------------|----|-----|-----|------|
| 15H1MAP | N | Bear Creek | 31 | 46N | 58E | 7800 |
| 15G3p | I | Cat Creek Airport | 9 | 16S | 6E | 5700 |
| 15H2 | N | Fox Creek | 33 | 46N | 58E | 6800 |
| 15H15A | N | Hummingbird Springs | 6 | 45N | 60E | 8945 |
| 15H14MP | N | Pole Creek Ranger Station | 13 | 46N | 59E | 8330 |
| 15G4p | I | Sailor Creek Divide | 21 | 10S | 10E | 4350 |

OWYHEE RIVER

| | | | | | | |
|---------|---|-----------------------------|-----------|-----|-----|------|
| 16G6 | I | Antelope Ridge | 20 | 8S | 1E | 5900 |
| 18F5 | O | Barren Valley | 26 | 17S | 38E | 4200 |
| 16G9a | I | Battle Creek | 10 | 11S | 1E | 5700 |
| 15H4M | N | Big Bend | 30 | 45N | 56E | 6700 |
| 17G2m | O | Blue Mountain Pass (Basque) | 4 | 38S | 42E | 5290 |
| 16G10a | I | Bull Basin | 19 | 12S | 5W | 5600 |
| 18G3m | O | Folly Farm Summit | 8 | 30S | 38E | 4450 |
| 15H7 | N | Fry Canyon | 31 | 43N | 54E | 6700 |
| 15H5 | N | Gold Creek | 31 | 45N | 56E | 6600 |
| 16G5a | I | Hyde Pasture | SE 1/4 31 | 8S | 2W | 5800 |
| 16H4 | N | Jacks Peak | 28 | 42N | 53E | 8420 |
| 17G3m | O | Jordan Valley | 2 | 30S | 46E | 4390 |
| 16H5 | N | Laurel Draw | 20 | 45N | 53E | 6700 |
| 17G4a | O | Louse Canyon | 27 | 40S | 44E | 6440 |
| 16H1M | N | Lower Jack Creek | 18 | 42N | 53E | 6800 |
| 16G7MP | I | Mud Flat | 34 | 9S | 2W | 5500 |
| 17G5a | O | Oregon Canyon | 9 | 40S | 40E | 6950 |
| 17H6a | N | Quinn Ridge | 9 | 47N | 41E | 6300 |
| 16G11ap | I | Red Canyon | 32 | 11S | 4W | 6650 |
| 15H6M | N | Rodeo Flat | 36 | 43N | 53E | 6800 |
| 16F3AP | I | Silver City | 6 | 5S | 3W | 6400 |
| 16G1P | I | South Mountain | 35 | 7S | 5W | 6340 |
| 16F6a | I | Succor Creek | 25 | 3S | 5W | 6100 |
| 15H9M | N | Taylor Canyon | 35 | 39N | 53E | 6200 |
| 16G4MA | I | Triangle | N 1/2 35 | 7S | 3W | 5150 |
| 16H2 | N | Upper Creek | 9 | 42N | 53E | 7250 |
| 16G12a | I | Vaught Ranch | 10 | 11S | 1W | 5950 |
| 16G13a | I | War Eagle | 20 | 5S | 3W | 7700 |

LEGEND

Numbering System (example)

| | |
|--------|--|
| 10J7 | SNOW COURSE ONLY. |
| 10J7P | SNOW COURSE AND PRECIPITATION GAGE. |
| 10J7M | SNOW COURSE AND SOIL MOISTURE STATION. |
| 10J7A | SNOW COURSE AND AERIAL MARKER. |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER. |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY. |
| 10J7 a | AERIAL MARKER ONLY. |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY. |

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| NAME | NO. | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| | | | | | | LAST YEAR | AVERAGE ^b |

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

| | | | | | | | |
|---------------------|------|------|------|----|------|------|-------|
| Boy Scout Camp | 13G2 | 7600 | 3/3 | 32 | 10.5 | 14.0 | -- |
| Clear Creek Meadows | 13H2 | 9050 | 2/28 | 49 | 15.1 | 18.4 | -- |
| Howell Canyon | 13G1 | 8000 | 3/1 | 52 | 18.6 | 17.6 | 23.3* |
| One Mile Summit | 13H1 | 7330 | 2/28 | 16 | 4.2 | 6.2 | -- |
| Sublett | 12G8 | 6000 | 2/28 | 31 | 8.3 | 8.5 | 10.3 |
| Summit Springs | 12G9 | 6400 | 2/28 | 26 | 7.4 | 8.1 | -- |

GOOSE CREEK

| | | | | | | | |
|---------------------|------|------|------|----|------|------|-------|
| Badger Gulch | 14G3 | 6660 | 2/28 | 26 | 7.4 | 7.0 | 11.5* |
| Bostetter Rgr. Sta. | 14G1 | 7500 | 2/28 | 39 | 12.6 | 11.9 | 17.9 |
| Vi Pont | 13H3 | 7670 | 2/28 | 34 | 10.5 | -- | -- |

SALMON FALLS CREEK

| | | | | | | | |
|----------------------|-------|------|------|----|------|------|-------|
| #Bear Creek | 15H1 | 7800 | 2/27 | 51 | 18.1 | 11.9 | 16.6* |
| Cedar Creek | 14G5 | 7000 | 2/27 | 27 | 8.4 | 8.2 | 10.3* |
| Deadline | 14G4 | 6900 | 2/27 | 46 | 15.2 | 13.8 | 19.9* |
| #Fox Creek | 15H2 | 6800 | 2/27 | 30 | 9.1 | 8.5 | 9.4* |
| Goat Creek | 15H13 | 8800 | 2/27 | 44 | 15.2 | 11.8 | 15.9* |
| #Hummingbird Springs | 15H15 | 8945 | 2/27 | 56 | 19.4 | 14.3 | 18.4* |
| Magic Mountain | 14G2 | 6700 | 3/1 | 36 | 11.5 | 11.6 | 16.3 |
| #Pole Creek R. S. | 15H14 | 8330 | 2/27 | 47 | 16.3 | 12.8 | 15.7* |
| Red Point | 15H18 | 7940 | 2/27 | 28 | 10.0 | 9.3 | -- |
| Shoshone Basin | 14G6 | 5740 | 2/27 | T | T | 4.1 | 4.2* |
| Wilson Creek | 15G2 | 7500 | 2/27 | 40 | 14.6 | 9.3 | -- |

BRUNEAU RIVER

| | | | | | | | |
|----------------------|-------|------|------|----|------|------|-------|
| Bear Creek | 15H1 | 7800 | 2/27 | 51 | 18.1 | 11.9 | 16.6* |
| Fox Creek | 15H2 | 6800 | 2/27 | 30 | 9.1 | 8.5 | 9.4* |
| Hummingbird Springs | 15H15 | 8945 | 2/27 | 56 | 19.4 | 14.3 | 18.4* |
| Pole Creek Rgr. Sta. | 15H14 | 8330 | 2/27 | 47 | 16.3 | 12.8 | 15.7* |
| #Seventy-six Creek | 15H3 | 7100 | 2/27 | 31 | 9.6 | 5.9 | 11.5* |

OWYHEE RIVER

| | | | | | | | |
|------------------|-------|------|------|----|------|------|-------|
| Antelope Ridge | 16G6 | 5900 | 2/27 | 26 | 7.5 | 3.7 | -- |
| Battle Creek (A) | 16G9 | 5700 | 2/27 | 12 | 3.6 | 2.4 | 3.6* |
| #Bear Creek | 15H1 | 7800 | 2/27 | 51 | 18.1 | 11.9 | 16.6* |
| Bull Basin (A) | 16G10 | 5600 | 2/27 | T | T | 2.2 | -- |
| #Fox Creek | 15H2 | 6800 | 2/27 | 30 | 9.1 | 8.5 | 9.4* |
| Hyde Pasture | 16G5 | 5800 | 2/27 | 19 | 5.7 | 2.9 | 4.9* |
| Mud Flat | 16G7 | 5500 | 2/27 | 21 | 5.9 | 4.4 | 4.7* |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-------|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |
| Red Canyon (A) | 16G11 | 6650 | 2/27 | 19 | 5.7 | 6.5 | -- |
| #Seventy-six Creek | 15H3 | 7100 | 2/27 | 31 | 9.6 | 5.9 | 11.5* |
| Silver City | 16F3 | 6400 | 2/26 | 48 | 15.2 | 10.0 | 13.8* |
| South Mountain | 16G1 | 6340 | 2/28 | 36 | 12.3 | 5.3 | 10.6 |
| Succor Creek (A) | 16F6 | 6100 | 2/27 | 26 | 7.8 | 4.3 | -- |
| Triangle | 16G4 | 5150 | 2/27 | T | T | 0.2 | 0.7* |
| Vaught Ranch (A) | 16G12 | 5950 | 2/27 | 10 | 3.0 | 2.9 | -- |
| War Eagle (A) | 16G13 | 7700 | 2/27 | 62 | 20.5 | 14.4 | -- |

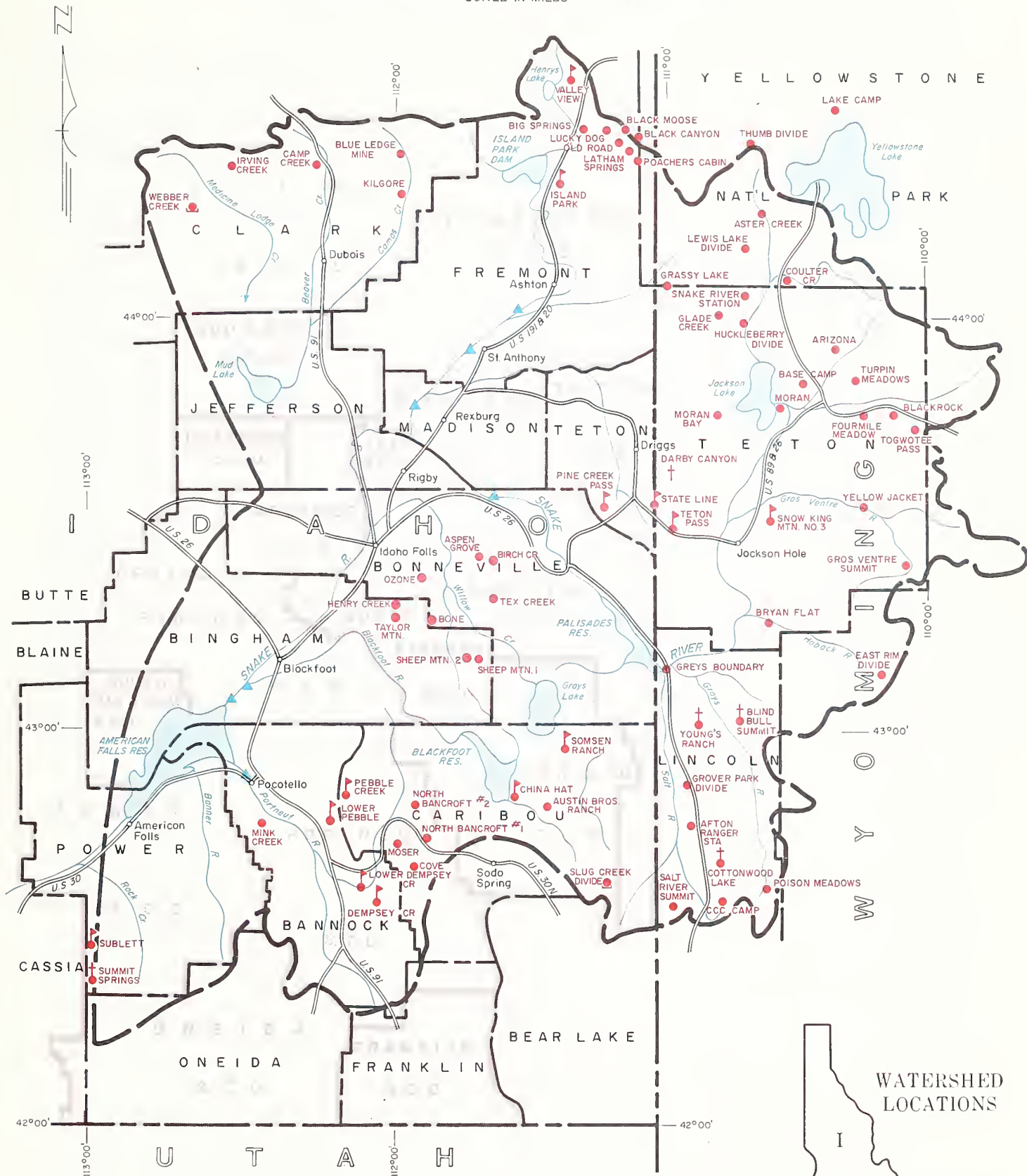
SOIL MOISTURE

| STATION | | PROFILE (Inches) | | SOIL MOISTURE (Inches) | | | |
|---------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
| | | DEPTH | CAPACITY | DATE | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME | ELEVATION | | | | | | |
| <u>RAFT RIVER</u> | | | | | | | |
| Sublett | 6000 | 36 | 7.0 | 2/28 | 5.6 | 6.2 | 7.8 |
| <u>GOOSE CREEK</u> | | | | | | | |
| Badger Gulch | 6660 | 36 | 7.0 | 2/28 | 5.9 | 5.3 | 7.1 |
| Trapper Creek | 5300 | 36 | 10.0 | 2/28 | 4.5 | 6.5 | 8.1 |
| <u>SALMON FALLS CREEK</u> | | | | | | | |
| Deadline | 6900 | 36 | 7.4 | 2/28 | 5.9 | 5.7 | 8.0 |
| Patrick Ranch | 5720 | 36 | 7.7 | 2/27 | 5.8 | 3.4 | -- |
| Pole Creek R. S. | 8330 | 48 | 12.7 | 2/27 | 7.4 | -- | 8.4 |
| <u>BRUNEAU RIVER</u> | | | | | | | |
| Bear Creek | 7800 | 72 | 16.9 | 2/27 | 8.7 | 11.0 | 13.7 |
| <u>OWYHEE RIVER</u> | | | | | | | |
| Mud Flat | 5500 | 48 | 12.8 | 2/27 | 14.4 | 10.6 | 13.8 |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

UPPER SNAKE RIVER BASIN

25 0 25 50
SCALE IN MILES

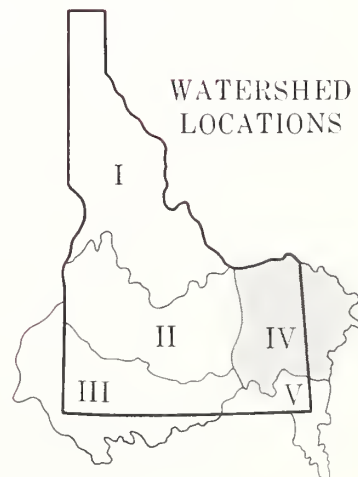


LEGEND

- Watershed Boundary
- - - Soil Conservation District Bdry
- - - County Boundary
- ▲ Forecast Point

- Snow Course
- † Aerial Snow Depth Gage
- P Soil Moisture Station
- O Snow Pressure Pillow
- q Temperature Gage
- L Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. | NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|--------------------------------|-------|-----------------------|---------|-----------|-------|-------|-----------------------------------|--|-----------------------|------|-----------|-------|-------|
| | | | LAT. | OR AND | LONG. | | | | | LAT. | OR AND | LONG. | |
| UPPER SNAKE RIVER BASIN | | | | | | | TETON RIVER | | | | | | |
| SNAKE RIVER - WYOMING | | | | | | | 10F21a | Wy | Darby Canyon | 28 | 43N | 118W | 8250 |
| 10G4 | Wy | Afton Ranger Station | 30 | 32N | 118W | 6200 | 11F2M | I | Pine Creek Pass | 24 | 3N | 44E | 6750 |
| 10F1 | Wy | Arizona | 3 | 46N | 115W | 6850 | 11F1M | I | State Line | 32 | 3N | 46E | 6400 |
| 10E8 | Wy | Aster Creek | 44° 17' | 110° | 38' | 7700 | 10F13M | Wy | Teton Pass | 24 | 41N | 118W | 8500 |
| 10F2 | Wy | Base Camp | 20 | 46N | 113W | 6900 | CAMAS - BEAVER CREEK | | | | | | |
| 10F7 | Wy | Blackrock | 4 | 44N | 111W | 8600 | 11E11 | I | Blue Ledge Mine | 27 | 13N | 38E | 6700 |
| 10G2A | Wy | Blind Bull | 6 | 34N | 115W | 8750 | 12E3 | I | Camp Creek | 21 | 33N | 36E | 6800 |
| 10F14 | Wy | Bryan Flat | 9 | 38N | 115W | 6250 | 11E12 | I | Kilgore | 6 | 12N | 39E | 6200 |
| 10E3 | Wy | Canyon | 44° 44' | 110° | 30' | 7750 | MEDICINE LODGE CREEK | | | | | | |
| 10G7 | Wy | CCC Camp | 9 | 29N | 118W | 7500 | 12E4 | I | Irving Creek | 20 | 13N | 33E | 7035 |
| 10G5A | Wy | Cottonwood Lake | 25 | 31N | 118W | 7500 | 12E5 | I | Webber Creek | 23 | 12N | 32E | 6700 |
| 10E10 | Wy | Coulter Creek | 44° 09' | 110° | 33' | 7600 | WILLOW CREEK | | | | | | |
| 10F17 | Wy | East Rim Divide | 32 | 37N | 111W | 7950 | 11F10 | I | Aspen Grove | 35 | 2N | 41E | 6600 |
| 10F6 | Wy | Four Mile Meadows | 35 | 45N | 112W | 7770 | 11F3 | I | Birch Creek | 36 | 2N | 41E | 6800 |
| 10E13 | Wy | Glade Creek | 12 | 48N | 116W | 7200 | 11F8 | I | Bone | 29 | 1S | 40E | 6200 |
| 10F18 | Wy | Greys Boundary | 33 | 37N | 118W | 5800 | 11F4 | I | Ozone | 14 | 1N | 39E | 5800 |
| 10F19 | Wy | Gros Ventre Summit | 36 | 40N | 111W | 8750 | 11F9 | I | Sheep Mountain I | 33 | 2S | 41E | 6450 |
| 10G3 | Wy | Grover Park Divide | 27 | 33N | 118W | 7500 | 11F11 | I | Sheep Mountain II | 33 | 2S | 41E | 6510 |
| 10E14 | Wy | Huckleberry Divide | 32 | 48N | 115W | 7300 | 11F5 | I | Tex Creek | 6 | 1S | 42E | 6700 |
| 10E4 | Wy | Lake Camp | 44° 43' | 110° | 24' | 7850 | SAND CREEK | | | | | | |
| 10E9 | Wy | Lewis Lake Divide | 44° 13' | 110° | 40' | 7900 | 11F6 | I | Henry Creek | 7 | 1S | 39E | 5650 |
| 10F4 | Wy | Moran | 8 & 17 | 45N | 114W | 6800 | 11F7 | I | Taylor Mountain | 19 | 1S | 39E | 6500 |
| 10F3 | Wy | Moran Bay | 14 | 45N | 116W | 6800 | BLACKFOOT RIVER | | | | | | |
| 10E2 | Wy | Norris Basin | 44° 44' | 110° | 42' | 7500 | 11G3 | I | Austin Brothers Ranch | 28 | 7S | 43E | 6450 |
| 10G6 | Wy | Poison Meadows | 29 | 30N | 116W | 8500 | 11G2M | I | China Hat | 17 | 7S | 42E | 6300 |
| 10G8 | Wy | Salt River Summit | 32 | 29N | 118W | 7900 | 11G5 | I | Slug Creek Divide | 15 | 10S | 44E | 7225 |
| 10E12 | Wy | SNAKE RIVER STATION | 9 | 48N | 115W | 6780 | 11G1M | I | Somsen Ranch | 25 | 5S | 43E | 7000 |
| 10F20 | Wy | Snow King Mountain #3 | 4 | 40N | 117W | 7600 | PORTNEUF RIVER | | | | | | |
| 10E5 | Wy | Sylvan Pass | 12 | 52N | 110W | 7100 | 11G25 | I | Cove | 21 | 9S | 39E | 5525 |
| 10E7 | Wy | Thumb Divide | 44° 22' | 110° | 35' | 7900 | 12G5M | I | Dempsey Creek | 17 | 10S | 38E | 6280 |
| 10F9 | Wy | Togwotee Pass | 29 | 44N | 110W | 9600 | 12G7M | I | Lower Dempsey | 5 | 10S | 38E | 5210 |
| 10F5 | Wy | Turpin Meadows | 14 | 45N | 112W | 6930 | 12G6M | I | Lower Pebble | 7 | 8S | 38E | 5800 |
| 10G1A | Wy | Young's Ranch | 26 | 34N | 116W | 6530 | 12G1 | I | Mink Creek | 33 | 7S | 34E | 6300 |
| HENRYS FORK RIVER | | | | | | | 11G24 | I | Moser | 20 | 8S | 39E | 5950 |
| 11E9 | I | Big Springs | 34 | 14N | 44E | 6500 | 11G23 | I | North Bancroft #1 | 15 | 8S | 39E | 5460 |
| 11E18 | I | Black Canyon | 11 | 13N | 45E | 7850 | 11G22 | I | North Bancroft #2 | 27 | 7S | 39E | 5430 |
| 11E19 | I | Black Moose | 33 | 14N | 45E | 8125 | 12G2M | I | Pebble Creek | 34 | 7S | 37E | 6550 |
| 10E15 | Wy | Grassy Lake | 6 | 48N | 117W | 7230 | LEGEND | | | | | | |
| 11E10M | I | Island Park | 29 | 13N | 43E | 6315 | Numbering System (example) | | | | | | |
| 11E16 | I | Latham Springs | 9 | 13N | 45E | 7650 | 10J7 | SNOW COURSE ONLY. | | | | | |
| 11E14 | I | Lucky Dog | 2 | 13N | 45E | 6900 | 10J7P | SNOW COURSE AND PRECIPITATION GAGE. | | | | | |
| 11E15 | I | Old Road | 12 | 13N | 44E | 7250 | 10J7M | SNOW COURSE AND SOIL MOISTURE STATION. | | | | | |
| 11E17 | I | Poacher's Cabin | 11 | 13N | 45E | 8000 | 10J7A | SNOW COURSE AND AERIAL MARKER. | | | | | |
| 11E8M | I | Valley View | 7 | 15N | 44E | 6500 | 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER. | | | | | |
| | | | | | | | 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. | | | | | |
| | | | | | | | 10J7 m | SOIL MOISTURE STATION ONLY. | | | | | |
| | | | | | | | 10J7 a | AERIAL MARKER ONLY. | | | | | |
| | | | | | | | 10J7 p | STORAGE PRECIPITATION GAGE ONLY. | | | | | |

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

| | | | | | | | |
|------------|-------|------|------|----|------|-----|-----|
| Camp Creek | 12E3 | 6800 | 2/27 | 34 | 10.1 | 6.8 | 8.7 |
| Kilgore | 11E12 | 6200 | 2/26 | 33 | 10.0 | 8.2 | 8.8 |

MEDICINE LODGE CREEK

| | | | | | | | |
|--------------|------|------|-----|----|-----|-----|----|
| Irving Creek | 12E4 | 7035 | 3/1 | 22 | 5.6 | 4.5 | -- |
| Webber Creek | 12E5 | 6700 | 3/2 | 21 | 4.8 | 3.3 | -- |

HENRYS FORK RIVER

| | | | | | | | |
|-----------------|-------|------|------|----|------|------|-------|
| Big Springs | 11E9 | 6500 | 2/27 | 68 | 23.1 | 13.9 | 19.6 |
| Black Canyon | 11E18 | 7850 | 2/24 | 88 | 29.6 | 23.6 | -- |
| Black Moose | 11E19 | 8125 | 2/24 | 94 | 34.2 | 29.4 | -- |
| Grassy Lake | 10E15 | 7230 | 2/27 | 86 | 29.8 | 25.4 | 30.4* |
| Island Park | 11E10 | 6315 | 2/27 | 54 | 17.2 | 11.2 | 15.3 |
| Latham Springs | 11E16 | 7650 | 2/24 | 91 | 29.7 | 22.8 | -- |
| Lucky Dog | 11E14 | 6900 | 2/24 | 76 | 26.0 | 16.6 | -- |
| Old Road | 11E15 | 7250 | 2/24 | 78 | 29.0 | 19.8 | -- |
| Poacher's Cabin | 11E17 | 8000 | 2/24 | 84 | 30.3 | 25.8 | -- |
| Valley View | 11E8 | 6500 | 2/27 | 61 | 22.2 | 10.6 | 13.2 |

TETON RIVER

| | | | | | | | |
|------------------|-------|------|------|----|------|------|-------|
| Darby Canyon (A) | 10F21 | 8250 | 2/24 | 54 | 19.2 | 16.6 | -- |
| Pine Creek Pass | 11F2 | 6750 | 2/24 | 51 | 17.0 | 11.2 | -- |
| State Line | 11F1 | 6400 | 2/24 | 49 | 15.3 | 7.8 | 13.3 |
| Teton Pass | 10F13 | 8500 | 2/24 | 84 | 29.8 | 17.2 | 30.1* |

WILLOW CREEK

| | | | | | | | |
|-------------------|-------|------|------|----|------|-----|----|
| Aspen Grove | 11F10 | 6600 | 2/27 | 36 | 10.0 | 8.2 | -- |
| Birch Creek | 11F3 | 6800 | 2/27 | 35 | 10.5 | 6.5 | -- |
| Bone | 11F8 | 6200 | 2/28 | 25 | 7.2 | 6.8 | -- |
| Ozone | 11F4 | 5800 | 2/28 | 0 | 0.0 | 2.9 | -- |
| Sheep Mountain I | 11F9 | 6450 | 2/28 | 38 | 11.8 | 8.5 | -- |
| Sheep Mountain II | 11F11 | 6510 | 2/28 | 43 | 13.9 | 9.8 | -- |
| Tex Creek | 11F5 | 6700 | 3/2 | 30 | 8.5 | 6.5 | -- |

SAND CREEK

| | | | | | | | |
|-----------------|------|------|-----|----|-----|-----|----|
| Henry Creek | 11F6 | 5650 | 3/1 | 12 | 4.6 | 6.0 | -- |
| Taylor Mountain | 11F7 | 6500 | 3/1 | 24 | 7.7 | 7.8 | -- |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|------------------------|---------------------------|------------------------|----------------------|
| NAME | NO. | ELEVATION | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| | | | | | | LAST YEAR | AVERAGE ^b |

BLACKFOOT RIVER

| | | | | | | | |
|--------------------|------|------|------|----|------|------|-------|
| Austin Bros. Ranch | 11G3 | 6450 | 2/24 | 29 | 7.6 | 7.6 | 7.3* |
| China Hat | 11G2 | 6300 | 2/24 | 22 | 5.8 | 6.6 | 6.3* |
| Slug Creek Divide | 11G5 | 7225 | 2/24 | 49 | 14.8 | 11.6 | -- |
| Somsen Ranch | 11G1 | 7000 | 2/24 | 44 | 12.8 | 11.0 | 10.9* |

PORTNEUF RIVER

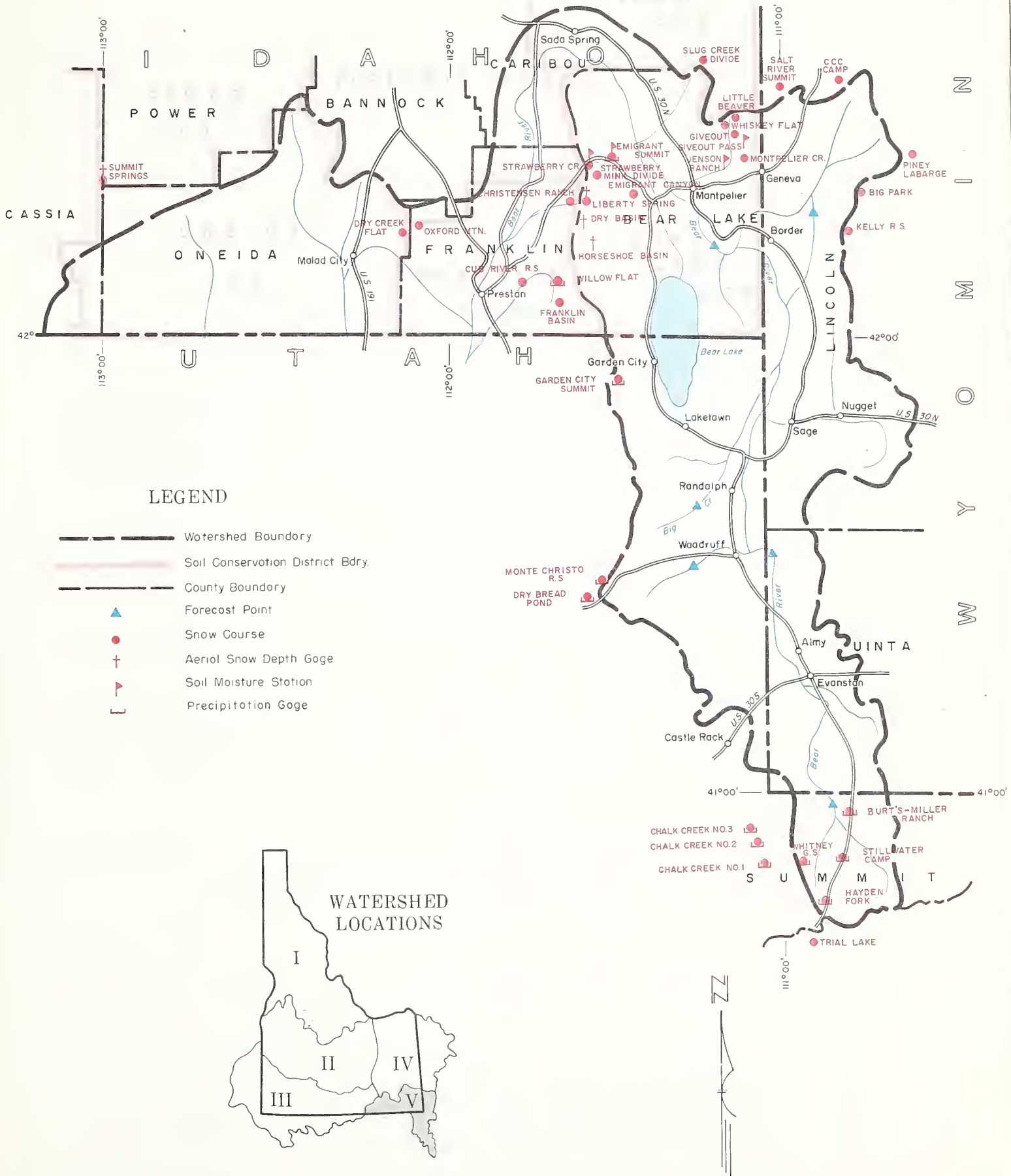
| | | | | | | | |
|-------------------|-------|------|------|----|------|------|-------|
| Cove | 11G25 | 5525 | 2/27 | 24 | 7.0 | 4.9 | -- |
| Dempsey Creek | 12G5 | 6280 | 2/28 | 39 | 11.0 | 7.9 | 10.2* |
| Lower Pebble | 12G6 | 5800 | 2/28 | 41 | 12.6 | 8.2 | -- |
| Mink Creek | 12G1 | 6300 | 3/1 | 45 | 14.7 | 13.0 | 14.6 |
| Moser | 11G24 | 5950 | 2/27 | 28 | 8.0 | 6.0 | -- |
| North Bancroft #1 | 11G23 | 5460 | 2/27 | 15 | 5.1 | 5.5 | -- |
| North Bancroft #2 | 11G22 | 5430 | 2/27 | 11 | 3.6 | 3.1 | -- |
| Pebble Creek | 12G2 | 6550 | 2/28 | 47 | 15.2 | 10.2 | 13.2 |

SOIL MOISTURE

| SOIL MOISTURE | | PROFILE (Inches) | | SOIL MOISTURE (Inches) | | | |
|--------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
| STATION | | DEPTH | CAPACITY | DATE | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME | ELEVATION | | | | | | |
| <u>HENRYS FORK RIVER</u> | | | | | | | |
| Island Park | 6315 | 48 | 9.9 | 2/27 | 8.2 | 8.5 | 8.6 |
| Valley View | 6500 | 48 | 13.3 | 2/27 | 4.8 | 8.0 | 11.0 |
| <u>TETON RIVER</u> | | | | | | | |
| Pine Creek Pass | 6750 | 48 | 13.3 | 2/24 | 5.6 | 4.9 | 8.0 |
| State Line | 6400 | 48 | 14.8 | 2/24 | 10.3 | 12.5 | 13.0 |
| Teton Pass | 8500 | 48 | 10.5 | 2/24 | 8.5 | 9.4 | 7.2 |
| <u>PORTNEUF RIVER</u> | | | | | | | |
| Lower Pebble | 5800 | 36 | 7.6 | 2/28 | 6.0 | 7.8 | 7.0 |
| Pebble Creek | 6550 | 48 | 7.2 | 2/28 | 3.4 | 6.1 | 5.2 |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN



INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP. | RGE. | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
| | | | LAT. | OR ANO | LONG. | |

GREAT BASIN

BEAR RIVER

| | | | | | | |
|---------|----|---------------------------|----|-----|------|------|
| 10G11 | Wy | Big Park | 7 | 27N | 117W | 8700 |
| 11H13MP | U | Dry Bread Pond | 19 | 8N | 4E | 8230 |
| 11G7 | I | Emigration Canyon (mouth) | 24 | 12S | 42E | 6500 |
| 11H7P | U | Garden City Summit | 35 | 14N | 4E | 7600 |
| 10J6 | U | Burt's-Miller Ranch | 19 | 3N | 10E | 7900 |
| 10J7 | U | Hayden Fork | 1 | 1S | 9E | 9300 |
| 10G12 | Wy | Kelly Ranger Station | 13 | 26N | 118W | 8200 |
| 11H12P | U | Monte Cristo R. S. | 3 | 8N | 4E | 8960 |
| 10G10 | Wy | Piney LaBarge | 19 | 29N | 114W | 8820 |
| 10J17P | U | Stillwater Camp | 32 | 2N | 10E | 8550 |
| 10J28P | U | Whitney G.S. | 4 | 1N | 9E | 9300 |

MONTPELIER CREEK

| | | | | | | |
|--------|---|------------------|----|-----|-----|------|
| 11G16 | I | Giveout | 35 | 11S | 45E | 6840 |
| 11G17m | I | Giveout Pass | 2 | 12S | 45E | 7025 |
| 11G19m | I | Jenson Ranch | 15 | 12S | 45E | 6580 |
| 11G20 | I | Little Beaver | 26 | 11S | 45E | 6970 |
| 11G18 | I | Montpelier Creek | 22 | 12S | 45E | 6570 |
| 11G21 | I | Whiskey Flat | 26 | 11S | 45E | 6985 |

MINK CREEK

| | | | | | | |
|--------|---|------------------------|----|-----|-----|------|
| 11G11 | I | Christensen Ranch | 27 | 13S | 41E | 5600 |
| 11G14a | I | Dry Basin | 30 | 13S | 42E | 7900 |
| 11G6MP | I | Emigrant Summit | 21 | 12S | 42E | 7350 |
| 11G15a | I | Horseshoe Basin | 31 | 13S | 42E | 8000 |
| 11G13A | I | Liberty Spring | 7 | 13S | 42E | 9600 |
| 11G9M | I | Strawberry Creek | 9 | 13S | 41E | 5800 |
| 11G10 | I | Strawberry Mink Divide | 14 | 13S | 41E | 6800 |

CUB RIVER

| | | | | | | |
|-------|---|--------------------------|---|-----|-----|------|
| 11G12 | I | Cub River Ranger Station | 5 | 15S | 41E | 5400 |
| 11G3 | I | Franklin Basin | 1 | 16S | 41E | 3000 |
| 11G4P | I | Willow Flat | 2 | 15S | 41E | 6100 |

MALAD RIVER

| | | | | | | |
|------|---|-----------------|----|-----|-----|------|
| 12G4 | I | Dry Creek Flat | 31 | 13S | 37E | 6350 |
| 12G3 | I | Oxford Mountain | 32 | 13S | 37E | 6800 |

LEGEND

Numbering System (example)

| | |
|--------|--|
| 10J7 | SNOW COURSE ONLY. |
| 10J7P | SNOW COURSE AND PRECIPITATION GAGE. |
| 10J7M | SNOW COURSE AND SOIL MOISTURE STATION. |
| 10J7A | SNOW COURSE AND AERIAL MARKER. |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER. |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY. |
| 10J7 a | AERIAL MARKER ONLY. |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY. |

SNOW

| DRAINAGE BASIN and SNOW COURSE | | | CURRENT INFORMATION | | | PAST RECORD | |
|--------------------------------|-----|-----------|---------------------|------------------------|---------------------------|------------------------|----------------------|
| | | | DATE OF SURVEY | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) | |
| NAME | NO. | ELEVATION | | | | LAST YEAR | AVERAGE ^b |

GREAT BASINBEAR RIVER

| | | | | | | | |
|-------------------|------|------|------|----|------|------|----|
| Emigrant Summit | 11G6 | 7350 | 2/28 | 66 | 22.4 | 15.2 | -- |
| Emigration Canyon | 11G7 | 6500 | 2/28 | 30 | 9.5 | 7.3 | -- |

Montpelier Creek

| | | | | | | | |
|------------------|-------|------|------|----|------|------|----|
| Giveout | 11G16 | 6840 | 2/27 | 40 | 12.5 | 8.7 | -- |
| Little Beaver | 11G20 | 6970 | 2/27 | 48 | 15.3 | 12.0 | -- |
| Montpelier Creek | 11G18 | 6570 | 2/27 | 28 | 7.7 | 6.7 | -- |
| Whiskey Flat | 11G21 | 6985 | 2/27 | 26 | 7.8 | 9.6 | -- |

Mink Creek

| | | | | | | | |
|------------------------|-------|------|------|----|------|------|-------|
| Christensen Ranch | 11G11 | 5600 | 2/28 | 30 | 8.6 | 7.0 | 9.0* |
| #Emigrant Summit | 11G6 | 7350 | 2/28 | 66 | 22.4 | 15.2 | -- |
| Liberty Spring | 11G13 | 8600 | 3/1 | 94 | 32.6 | 25.7 | -- |
| Strawberry Creek | 11G9 | 5800 | 2/28 | 36 | 10.3 | 7.6 | 11.1* |
| Strawberry Mink Divide | 11G10 | 6800 | 2/28 | 64 | 22.4 | 12.3 | 19.3* |

Cub River

| | | | | | | | |
|-----------------|-------|------|------|----|------|------|-------|
| Cub River R. S. | 11G12 | 5400 | 2/28 | 27 | 9.2 | 7.8 | 9.4* |
| Willow Flat | 11G4 | 6100 | 2/28 | 43 | 13.0 | 10.6 | 14.3* |

MALAD RIVER

| | | | | | | | |
|-----------------|-------|------|------|----|------|-----|------|
| Dry Creek Flat | 12G4 | 6350 | 2/27 | 22 | 6.7 | 5.0 | 6.9* |
| Lower Elkhorn | 12G11 | 6850 | 2/27 | 39 | 11.9 | -- | -- |
| Oxford Mountain | 12G3 | 6800 | 2/27 | 30 | 8.3 | 5.9 | 8.7* |
| Upper Elkhorn | 12G10 | 7100 | 2/27 | 53 | 16.2 | -- | -- |

SOIL MOISTURE

| STATION | | PROFILE (Inches) | | SOIL MOISTURE (Inches) | | | |
|-------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
| | | DEPTH | CAPACITY | DATE | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME | ELEVATION | | | | | | |
| <u>BEAR RIVER</u> | | | | | | | |
| Emigrant Summit | 7350 | 36 | 8.2 | 2/28 | 2.6 | 5.2 | 4.4 |
| Strawberry Creek | 5800 | 48 | 12.7 | 2/28 | 7.3 | 6.4 | 11.5 |
| <u>Montpelier Creek</u> | | | | | | | |
| Giveout Pass | 7025 | 48 | 12.6 | 2/27 | 3.4 | 8.5 | -- |
| Jenson Ranch | 6580 | 48 | 18.7 | 2/27 | 6.6 | 11.4 | 16.7 |

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Environmental Sciences Service Administration,
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P.O. BOX 38
BOISE, IDAHO 83701

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

USDA NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORD
WASHINGTON, D.C. 20250